SCOTTISH EDUCATION DEPARTMENT

# Report of the Working Party on the Curriculum of the Senior Secondary School

Introduction of the Ordinary Gra of the Scottish Leaving Certific



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#### NOTE

Throughout the Report we use the following terms in the sense given below:

- course = a combination of subjects studied regularly and systematically over a certain period of time.
- a Certificate course = a course leading to presentation on either grade at the Certificate examination. curriculum = the sum of all courses provided in a

school.

- a subject course regular and systematic study of a subject for two or more years.
- a short course = a subject course started later than normal, e.g. in the third or a subsequent year.
- syllabus = the content of an individual subject course.
- senior secondary education = the education given to pupils following Certificate courses.

## To W. F. ARBUCKLE, Esq., C.B.

Secretary, Scottish Education Department

- SIR, In Circular No. 312, which was issued to education authorities and other school managers on 23rd July, 1955, it was announced
  - (a) that the Secretary of State had decided to amend the regulations governing the award of the Sostish Lewing Certificate so as to enable putals in the fourth year of an approved course to be presented in a many subjects on the Lower (6) gand as they were considered by the school authorities to be fit to attempt and at the same time to make appropriate adjustments in the standard of the Lower (6) gand examinputals.
  - (b) that a review would be undertaken of the whole curriculum of the senior secondary school to take account of this change in the examination arrangements and to ensure as far as possible a regular progression in the various courses up to the stage of the Certificate examination.

We have been charged with this review, the terms of our remit being: "To consider how earlier secondary counters should be organized so that the varying educational needs of the purplis who embark on these courses can be adequately met and to make recommendations as to the general conditions which should in consequence govern the award of the Scottish Leaving Certificate on both the new Ordinary gande and the existing Higher grade."

We now have the honour to submit the following Report.

<sup>(5)</sup> It has chose been intimated that, to would possible minundentizading, the new grads will be referred to as the

## Part 1: Organization of Certificate Courses

### INTRODUCTION

# EDUCATIONAL REASONS FOR RE-ORGANIZING COURSES

1. In undertaking the review entrusted to us, we found it necessary to keep constantly in mind the educational reasons which lay behind the Secretary of State's decision to amend the existing examination regulations and introduce into the fourth year the examination on the Ordinary grade. We mention some of these considerations here, since they have an important bearing on all our recommendations, particularly on those which deal with the organization of Certificate courses. (Certain practical advantages which it is hoped to obtain from holding the examination on the Ordinary grade in the fourth year are discussed later (paragraphs 160-163) since they are closely related to the type and standard of the examination itself.)

2. Concern has been felt for many years that the number of pupils who successfully complete Scottish Leaving Certificate courses is so small compared with the number of those who are allocated to them, and this concern has of late been steadily increasing. Figures submitted to the Department (2) and made available to us show that rather less than a third of the pupils who embark on such courses actually gain a certificate, even including those whose certificate records a single Lower grade pass. The majority of the others leave school without completing the fourth year of their course; many do not complete even the third. Some pupils, it is true, leave before the end of their course in order that they may gain practical experience and undertake further education in the narrower field of their chosen career; for certain of them this may in fact be the most satisfactory next step in their education. Too few pupils, however, on leaving school, continue to take any form of organized education at all commensurate with their abilities. At a time when there is an urgent need to increase the pool of highly qualified men and women, the resulting loss is one which the nation simply cannot afford.

3. Although the proportion of pupils remaining at school beyond the statutory leaving age is increasing yearly and is higher today than ever before, yet there is no doubt that more pupils ought to be completing a Certificate course than are in fact doing so. Many circumstances-economic, social, and psychological-at present combine to encourage early leaving. The immediate attractions of employment in industry and commerce are factors hard to combat; the indifference of some parents is a source of difficulty for many schools; the earlier maturing of most secondary school pupils is causing some of them to chafe under the discipline of school life. Nevertheless it is impossible to avoid the conclusion that many pupils leave school prematurely because the course they are following fails to satisfy them. Why these courses fail in this way is a

question which admits of many possible answers.

4. In the first place, all our evidence goes to show that most Scottish Leaving Certificate courses are still being planned in accordance with the standard traditionally associated with the former "Group" certificate, i.e. one with at least two Higher grade and three Lower grade passes. Investigations carried out by a number of education authorities suggest, however, that rather less than ten per cent. of the pupils in any age-group are in fact capable of obtaining what would have constituted a "Group" certificate. Since from 20 per cent. to 40 per cent. of the pupils in each age-group are admitted to

(2) For example:

For example: In assistin 1931-34, the number of pupils stated to be in the first year of five-year courses in public and grass-lated abshook was \$6,502, in 1938, the soul number of pupils to whom a Soptilah Leaving Certificate was awarded was \$,700.

Scottish Leaving Certificate courses (the percentage varying according to the education area), it follows that many of these pupils must find too exacting the courses at present provided, as also the syllabuses in individual subjects within these courses; the resulting sense of failure and frustration undoubtedly

militates against their remaining at school.

5. Secondly, the courses take too little account of the future vocational orquirements of a substantial number of pupils, as these requirements gradually emerge. Thus, it is a valid criticism of Scottish secondary education to say that, while schools provide courses which lead directly to university entrance, they less frequently make deliberate and adequate provision of Certificate course which lead with equal directness, one control to feat more and more strongly that their school course locks relevance to the type of career they would like to follow, and they therefore leaves school much sooner than they otherwise would.

6. Thirdy, the organization of senior secondary education is too rigid by introducing additional subjects and by increasing the number of options allowed, but it is still all too customary, especially in the first three years, to fit the pupils to the curriculum rather than the curriculum to the pupils, so that some pupils may find timensives allocated to the curriculum to the pupils, so that some pupils may find timensives allocated to the curriculum to the pupils, so that some discount of the curriculum to the pupils, so that some discount of the curriculum to the pupils, so that some discount of the curriculum to the pupils, so that some discount of the curriculum to the pupils, so that some discount of the curriculum to the pupils and the curriculum to the pupils and the curriculum to t

have themselves discouraged experiment.

7. One further cause of disastisfaction must be mentioned. Some pupils, wen those for whom their course is not flundamentally unsatistist, find that it manifold and rapid development of room times, many ishools have not perform the development in attracting and mataning the pupil with control resulting from these developments in attracting and mataning the pupil with the content of course and the methods of presentation require review, if they are to expect to the modern pupil. To take only one example, it would be wrong to assume the content of the content of the content of course and the methods of presentation require review, if they are to appeal to the modern pupil. To take only one example, it would be wrong to assume contrary, he may be more interested in a current television series or in the control control of model aeroplanes. Indeed, the over-literary has of cortain interest in the few work.

Interest in their work.

8. The need to devise and provide alternative courses for those pupils for whom the present Certificate courses are proving unsuitable and who are in consequence abandoning formal education too early is imperative. We therefore propose to deaf first with this aspect of our remit: we make a beginning by

reviewing the process of selecting pupils for Certificate courses.

#### SELECTION OF PUPILS

#### PROMOTION PROCEDURES

9. Only a minority of pupils in any age-group have the ability necessary to allow then to follow a Certificate course with profit. To permit others to embark on these courses would therefore be a grave mistake: not only would this do these pupils a serious distervice, since they would be attempting something they could not hope to achieve instead of following a course designed specifically to suit them in pace and content, but it would also hamper the

progress of those for whom the Certificate courses are appropriate. It follows that some form of selection of pupils for admission to Certificate courses is essential. It is outwith our competence to recommend any particular system of selection, but the effects which certain aspects of promotion procedures have had, or may have, on senior secondary education are relevant to our inquiry

and must be considered.

10. In dealing with the promotion of pupils from primary to secondary education, certain assumptions have too readily been made and acted unon. For example, it has been traditional to assign the ablest pupils in any agegroup to a course including two foreign languages and the next in ability to a course with one foreign language, regardless of whether such courses are likely to be in accordance with the individual interests, particular aptitudes, and future requirements of the pupils concerned. The use by most promotion boards of this rather narrow and artificial classification has led both to the undue rigidity of curriculum already mentioned and to an excessive emphasis on the literary side.

11. Promotion procedures in general have been considerably improved over the years. They now arrive at a more objective and accurate assessment of each pupil's ability and attainment than was previously reached. Standardized tests, where these are employed, and teachers' estimates, if used, are both directed towards achieving this end. An accurate assessment of the pupils' abilities and attainments is certainly of prime importance for the first broad classification of the pupils, that is, as far as this Report is concerned, for the selection of those pupils who should embark on Certificate courses. When, however, it comes to allocating the pupils to appropriate courses within the school itself, there are other considerations which ought also to be taken into account. It is, for instance, of great value to have some knowledge of a pupil's character (especially his industry, perseverance, and powers of concentration) and of the attitude of his parents to his education. A great deal is known in the primary school about such matters and this information should be utilized much more fully than is generally done at present. There should in this connection be the closest possible collaboration and consultation between the headmaster (1) and teachers of the sending primary schools and those of the receiving secondary school, and it should be the duty of the headmaster of the secondary school to ensure that this consultation takes place. Again, by interviewing parents, headmasters both of primary and of secondary schools can help to ensure the understanding and co-operation which contribute so much to a smooth transition from primary to secondary education. It is clear that the work of the promotion boards must be supplemented by such direct contacts if classification is to be as effective as possible. We therefore recommend that promotion boards should confine their decision to the selection of those punils who show reasonable promise of profiting from a senior secondary education, and that further classification should be the responsibility of the receiving headmaster. Parents will, of course, still have the statutory right of appeal to the education authority and to the Secretary of State.

#### ALLOCATION TO CLASSES

12. In making the initial allocation to classes, the headmaster should have at his disposal the data about his pupils on which the decisions of the Promotion Board have been based. In addition, the personal information passed on from the primary school and the knowledge he has acquired about the desires and outlook of the parents should make it possible for him to take a more balanced decision regarding each pupil than if he were dependent solely on an assessment of the pupil's ability and of his attainment in certain primary

school subjects.

13. This initial allocation would, of course, be subject to review in the light of the pupils' subsequent progress and the headmaster should have complete discretion to re-allocate pupils at any later stage, subject to the prenents' right of appeal to the education authority. Where such re-allocation proceedings of the process of t

#### FIRST YEAR OF CERTIFICATE COURSES

- 14. So important is the first year of senior secondary education, since success or failure in it may determine a pupil's whole subsequent attitude to school, that we believe it merits detailed consideration. In the planning of this year, three aspects deserve special attention:
  - it should be made possible for the pupil to adapt himself with growing confidence to the secondary school;
  - (ii) a firm foundation should be laid for future work;
- (iii) a more reliable assessment of each pupil's capabilities should result. Each of these aspects will assume greater or less importance according to individual circumstances.

### (i) Adaptation to the secondary school

15. The pupil must first of all adapt himself to his new surroundings. Where transfer to secondary education involves no change of school, this adaptation may be comparatively simple since he will probably be able to find his way about and he will know the teachers at least by sight. By contrast, a pupil from a small one-teacher school may be at a complete loss on finding himself a very junior member of a large secondary school with a thousand or more pupils. A further difficulty for most pupils is that they must accustom themselves to having a number of teachers instead of one teacher for almost all subjects; this diversity may prove for some a stimulus and for others a source of confusion. We are of the opinion that, in order to obviate these and other difficulties, there ought to be one teacher who has a special responsibility for each class. Such an arrangement already operates to a certain extent in many schools. What is essential, however, is that this class master should be continually aware of the implications of his position. He should have at his disposal as much information as is available about each pupil in his class. This information should include particulars about any special home circumstances (e.g. father abroad; pupil living with grandparents) and about the pupil's health. Information about health is sometimes withheld from schools on the ground that it is highly confidential. Since, however, such information may have a bearing on what is expected of a pupil in school, we recommend that the headmaster should be given this information in confidence and should have the right to pass it on, where appropriate, to the class master. The class master should be expected to keep the information about each of his pupils up to date, adding any relevant points that he may learn himself or may have passed on to him, so that the picture is as complete as possible. It is desirable, though not always practicable, that the class master should take his class for his own subject, as this gives him a good opportunity of getting to know the pupils individually. In some schools, a short period of time is also set aside daily for

class master and class to come together. It should be one of the class master's min duties to try to help his pupils over their difficulties, personal and scholastic, and the pupils should know that they can turn to him for advice whenever they some schools, would enable many pupils to keep abreat of their work who at present fall in the early stages and never completely regain confidence. The class master should, for instance, now one schools, would not include a superior of their work who at present fall in the early stages and never completely regain confidence. The class master should, for instance, now one of the class master should, for instance, now one of the class master should, for instance, now one who had lake the institutive in having arrangements made for the pupil to receive individual help. This is especially important where a pupil had lost ground through libens or absence from other causes. Furthermore, the most of the contraction of the class of t

#### (ii) Laving a firm foundation

16. It is essential that a firm foundation in the work of the course should be laid in the first year. The amount of ground to be covered must, therefore, be kept within reasonable limits. Unfortunately the practice of pressing on too rapidly is commoner and more harmful than is generally realized. It is obvious that, since over the country as a whole some 30 per cent. of an age-group embarks on Certificate courses, the range of ability must be considerable. In certain areas, according to evidence submitted to us, some account is taken of this range of ability, but for the most part the present practice is to treat all entrants to Certificate courses as potential Higher grade candidates in all or most of their subjects. Where action is subsequently taken to help pupils who are unable to maintain the pace, it is usually done in one of two ways. In some cases pupils are allowed to discontinue the study of one or more subjects. It must, however, be admitted that not only is such a step in a sense an admission of failure but, in the circumstances, the time spent on the subject must be regarded as largely wasted. In other cases the syllabuses they are following in individual subjects is modified. Here, too, there is a grave risk that much harm will already have been done before any action is taken: the pupil may have become confused and, in consequence, basic work may remain insecure throughout his course; moreover, he may have developed a dislike for a subject which he could otherwise have mastered. We are strongly of the opinion that it is educationally sound to start with a limited curriculum and to add to it only when the pupils prove they are capable of carrying a heavier load. A minority of us consider that the courses at present provided from the outset for the very ablest pupils need not be reduced.

17. In our view, since too much is normally attempted in the first year of senior secondary courses, steps should be taken to lighten the courses. This could be done in at least two ways. One of these is so to restrict the syllabus in each subject that it imposes no undue strain and allows ample time for consolidation. The other is to include a month of the control of the course of the co

18. If the curriculum as a whole is not to become too heavy, the content or cach subset must be kept within reasonable limits. The headmaster should that the syllabus in each subject is well within the graup of the pupils concerned and that it does not demand more time and energy than the pupils can be expected to give to it. After the course has begin, all teachers should be an absoluted which that the total amount of work expected of his class does not should which that the total amount of work expected of his class does not

become excessive. The headmaster in turn must keep the whole situation under constant review and arrange for any necessary action to be taken. It is of the first importance to enable the nunils to consolidate their work thoroughly in each subject. Unless this is done, the pupils will lack confidence and their insecurity in the elements of the subject will be reflected in all their later work Progress may at first appear to be slow, but much of the time that is so often spent in re-teaching the same material at a later stage can be saved. Especially in the first year, thoroughness is called for rather than speed,

19. When headmasters come to consider the advantages of including a smaller number of subjects in the first year of a course, the question immediately arises which subjects should be selected. In answering this question, a headmaster may find it helpful to decide first which subjects should be studied by all pupils at some stage of their course. Few would dispute the claims of English, history, geography, mathematics, science, physical education, and some form of aesthetic education to a place in every course; it is for the headmaster to decide whether all must be begun in the first year or whether any can be studied with greater advantage at a later stage when the pupils are more mature. Once the headmaster has made up his mind which of these subjects to include in the first year of the course he is planning, he should then consider whether the subjects selected form an adequate and well-balanced range without further addition. If, in his opinion, they are not adequate, he must decide what other subjects to include, having regard to the capacity and interests of the nunils

for whom the course is intended. 20. A practical problem which arises from restricting the number of subjects in the first year is that some of the pupils might then appear to be professing too few subjects to fill adequately the number of teaching periods in a week. In such cases, it might not be advisable simply to increase the number of teaching periods given to the individual subjects professed, particularly to examination subjects; there is probably an optimum time beyond which it is unwise to go. Time available can be very profitably used if there is a system of supervised study or preparation periods (paragraph 99). There is much to be said for allowing the class master to take his own class for such supervised study. This would again give him additional opportunity to get to know his punils better, to keep a watchful eye on their general progress, and to deal with individual problems.

#### (iii) Assessment of pupils' capabilities

21. Finally, the first year should lead to a clearer assessment of the notentialities of each pupil by providing additional knowledge about his ability, interests, industry, and aptitude for the various subjects he is studying. In undertaking a review of a pupil's work during the year, the headmaster will naturally have the assistance of subject teachers and class masters. The accuracy of his assessment will to a very considerable extent depend on the reliability of the information he receives from them. Each subject teacher must weigh un carefully the qualities shown by the pupils in his subject during the year and indicate as objectively as possible which pupils are likely to be successful in his particular subject and how rapidly they can be expected to progress. The class master, on the other hand, will be concerned rather with ensuring that a punil is not attempting too heavy or too light a course. He may also have valuable information to offer about the particular interests of some of the pupils in his charge. The headmaster should now be able to assess with greater accuracy than was possible at the promotion stage what each pupil can be expected to undertake with some prospect of success. It will be clearer, for example, whether the course the pupil is following is as much as he can carry or whether he should now add to it and, in the latter event, from which of the subjects that can be offered be its most likely to profit. While it should be possible to transfer pupils at any stage from one course to another, if this seems advisable, the earlier such a transfer can be made, the greater the adviragine is likely to the individual pupil. Transfers the oil restart the advantage is likely to the rest stage individual pupil. Transfers the oil restart the advantage is likely to the first stage individual pupil. Transfers the oil restart the proposition of the first year it carefully reviewed and an appropriate decision for the proposition of the stage is the contract of the first year it carefully reviewed and an appropriate decision.

2. Occasionally it may he possible to carry out such an assessment of the pupils' capabilities in less than a year and to adjust the time-table accordingly. It might, for example, be practicable in some schools to arrange for the very ablest pupils to start an additional subject after the first or the second term.

## DIFFERENTIATION OF COURSES AND SYLLABUSES

As the pupils move up the school, the difference in their rate of progress and in the range of their work becomes more and more marked, and account must be taken of this diversity. Hitherto, however, as has already been indicated (paragraph 16), it has too often been accepted that all Certificate course pupils should initially follow in each subject a syllabus essentially designed to lead to presentation on the Higher grade. The intention has undoubtedly been to give as many pupils as possible the chance of obtaining Higher grade passes; in consequence, the decision to transfer pupils to a Lower grade section in any subject is normally postponed as long as possible. Not infrequently the decision is taken as late as the end of the fourth year and in a number of cases even half way through the fifth year; that is, although the pupils may take the Lower grade examination, they have been following a Higher grade syllabus. Even when pupils have been divided at an earlier stage into Lower grade and Higher grade groups, the syllabuses for those aiming at the Lower grade examinations have, for the most part, heen modified versions of those intended for the very ablest pupils. This practice of treating all Certificate course pupils more or less alike has, however, proved unsatisfactory and the Department assure us that it has contributed to the failure of many candidates in the Scottish Leaving Certificate examinations. We therefore strongly advocate that differentiation of syllabuses should take place as soon as the need for it becomes apparent.

26. As has been suggested (paragraphs 21 and 22), by the end of the first year some populs will have shown beyond reasonable doubt that they can undertake a relatively heavy course and others that they should attempt no more than a minimal course; the work of these pupils should be arranged that they are the state of the stat

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#### THE ABLEST PUPILS

25. In each age-group there will be a number of pupils who should, without difficulty, reach the Higher grade in four or five subjects by the fifth year. These

pupils will be a small minority of those promoted to Certificate courses, but it is of paramount importance to the nation as well as to themselves that their abilities should be developed to the full. It is, therefore, essential that none of the new arrangements should result in any diminution of effort on the part of such pupils or should make it in any way less easy than at present for them to pass the Higher grade examinations in the fifth year with as wide a margin as

their abilities allow. 26. There is one obvious danger. While it is unnecessary and inadvisable for pupils of this calibre to take the Ordinary grade examinations in their main subjects, it is recognized that many may wish to do so. The danger is that a pupil who ought to be working for Higher grade presentation in a subject may, by concentrating in the fourth year on the limited demands of the Ordinary grade, so retard his progress as to prejudice his chance of success on the Higher grade in the following year. (This is a particular danger in the small school or department, for there may be only one or two pupils in this category while all the others in the same class will be aiming at taking the Ordinary grade examinations in the fourth year.) A pupil capable of being presented on the Higher grade in the fifth year should in fact have progressed in his fourth year well beyond the standard of the Ordinary grade. He should, however, if he so desires, have no difficulty in taking the Ordinary grade examinations in the subjects he is studying without special preparation and without interruption of his Higher grade course; the examinations should be planned with this possibility in view.

It might be argued that, since Certificate courses have been designed mainly for pupils aiming at the Higher grade examinations, they can remain unchanged for these pupils of high ability. One of the most disturbing facts. however, which has emerged from recent investigations is that a considerable proportion of the pupils who at the stage of promotion from the primary school have been selected as the most able are among those who either leave school without completing their course or gain only a very inadequate certificate at the end of it. Of the reasons already suggested for this "wastage" (paragraphs 3 to 7) two are particularly relevant here. The first is the over-emphasis for many of these pupils on the linguistic side. Almost all of them are at present allocated to courses which include two foreign languages. While some find this to be an appropriate course, the natural bent of others lies in quite a different direction. One possible solution has already been suggested. If promotion boards no longer allocate all the ablest pupils specifically to "two-language" courses, it should become normal to provide from the start more variety in the

courses offered. The second of these reasons is that many pupils have not found their

course interesting and satisfying. Certain factors which may lead to a feeling of boredom have already been mentioned (paragraph 7) and these apply particularly where the very able pupils are concerned. The syllabuses in individual subjects designed for these pupils are often too narrowly academic in type, possibly because academic prowess and high ability have too readily been regarded as synonymous. This criticism may apply to any subject, even to those regarded as essentially practical. Syllabuses should therefore be reviewed so that, if need be, the instruction can be brought up to date and be more closely related to the modern conditions to which young people have become accustomed outwith school. The methods of presentation may likewise be stereotyped and offer little challenge to an active mind. Again, if an attempt is made to keep all pupils progressing at a more or less uniform pace, the ablest will almost inevitably become bored. They very soon find that they can regularly make a pass-mark in examinations with little expenditure of energy and they may see no point in exerting themselves further. They may also lose interest when they have to listen to repeated explanations, given for the benefit of pupils less gifted than themselves, of points they have already mastered. (Once more these are difficulties especially likely to arise in small schools and departments, unless carefully goarded against.) Headmasters and teachers must, then, be prepared to plan and modify courses, spilabuses, and methods of presentation in order to stimulate active interest among these pupils of outstanding ability. Once real interest has been aroused, the pupils themselves

will lead the way.

20. Where it is practicable to group the sputit of this calibre into one class, the teacher can endally make the centent und pase of their work more class, the teacher can endally make the centent und pase of their work more class. Where, however, these pupils cannot be taken separately, there is still no need for them to mark time. A judicious use of group teaching (ransgraphs 87 to 90) will enable the teacher to give them the special instruction they require. Formately, too, these are the pupils most capable of working on their own and, when they are the pupils most capable of working on their own and, who of a more challenging nature.

Provided they are given the necessary guidance, it will be to their advantage to

learn early to work independently.

30. As these pupils progress up the school, it will be natural for them, as hitherto, to add subjects to their original course. Thus a pupil specially inter-seed in science night take more than the usual two branches, either simultaneously or by concentrating at first on two and subsequently adding others. Similarly, a pupil on the linguistic deep might safe for their subjects the properties of the state of

that the pupil's curriculum does not become overloaded.
31. Even when these pupils do succeed in the fifth year in passing in all their main subjects on the Higher grade, they will, we hope, continue at school

for a sixth year. The advantages of this additional year are discussed in a later section of this Report (paragraphs 119-122).

#### PUPILS TAKING MINIMAL CERTIFICATE COURSES

22. In the following paragraphs we discuss the position of those pupils who, at least in the first instance, are aiming at presentation on the Ordinary grade only. The courses which culminate in the examination on the Ordinary grade will be the instance of the control of the pupils admitted to Certificate course all those who, in the promotion board's prelimary classification, are not included in the top twenty-five per cent. of their age-group should from the outset be given a minimal course. Others, as a result course (or present part of the pupils of the course for agraphs 21, 22), will be clearly recognized as most likely to profit from a minimal course; their number will probably be considerable. Others again will find it desirable to transfer later as their course proceeds. Finally, if may be expedient for some pupils to take these courses for a specific reason, for the prove the most useful stepping-stone to some form of further education.

33. Although we are considering the pupils who will follow the minimal certificate courses, it must be remembered that these are able girls and boys, clearly above the national average in intelligence. There is, therefore, no suggestion that the courses provided for them should be easy; they should, however, be planned along lines appropriate to the pupils who are to follow the course provided for the most of the pupils who are to follow from being the same as those of the nouls of executionally high ability we

have previously been discussing.

34. For the most part the pupils who take minimal Certificate courses will later go into business and industry, where they will come to occupy posts of some responsibility and will therefore have a very important part to play in the national life. There is difficulty at present in meeting the demand for your men mad women of this calibre and the demand is increasing. Many potential manustiable and too exacting. Provides in of the right type of course should help to induce these pupils to continue their education at school and so enable them carry out their future duties with greater satisfaction to themselves and to their colleagues. Indeed, we believe that the success of the schools in meeting the continue that the success of the schools in meeting development of these minimal courts garge measure depend on a satisfactory development of these minimal courts.

35. What these pupils will need above all, and what the secondary school must therefore help them to develop, is the capacity to marshal relevant facts and consider them objectively, to make their own judgments (even in a comparatively limited field), and to act accordingly. They must also acquire a cond.

general background of knowledge. How is this to be achieved?

36. The general considerations relating to the planning of secondary constant secondary control of a later section of this Report (paragraphs 55 or 64) will apply very forcibly in this connection, but, in addition, the syllabuses of individual subjects and the methods of presentation may well have to be very different from those which have been traditional in most of our secondary schools.

37. In the first place, the content of the syllabuses should be such that the pupil can appreciate the relevance of what they are studying to the life they pupil can appreciate the relevance of what they are studying to the life the thet. They are such as the such as th

As the course proceeds, the pupils' choice of careers should to a greater or less degree influence the syllabus in most of their subjects, whether or not these have a close connection with the careers in question. There is, however, no intention that the whole course should become narrowly vocational. Pupils will be embarking upon many widely different types of career and it would be impossible, as well as inappropriate, to attempt to cater for all of them. Moreover, pupils will in any case receive the specific training they require after they leave school. Indeed, so quickly do processes change in the modern world that adaptability is of greater value to young people on leaving school than proficiency in any narrow vocational field. To introduce a vocational element into the content of a subject has, however, a twofold value. On the one hand, it makes it possible to train pupils to deal in a practical way with the type of situations they may later meet, giving them the basic skills they need in order to do so. On the other, it imparts a sense of reality to what they are learning and so helps to sustain and develop interest. For example, in English, a pupil who has hitherto been unwilling to speak in class may begin to develop an unsuspected talent for clear exposition when dealing not with an imaginary subject but with the manipulation and maintenance of a piece of machinery with which he is familiar; again, in history, recent developments in, say,

certain branches of industry. The pupils' natural interest in their chosen careers, if turned to good advantage, can indeed help them to acquire a more liberal

general education than would otherwise be possible.

general conditions were a reasonable of the control of the more relevant to everyday in the han has history been customery, so the methods used should be sessitially more practical. Most of these pupils have little interest in purely theoretical considerations and find difficulty in applying them. Where theoretical explanations are fit to be necessary, they should be given by direct classifications are fit to be necessary, they should be given by direct explanations are fit to be necessary, they should be given by direct explanations are fit to be necessary, they should be given by the control of th

do. It is probable that many pupils will leave school after obtaining a certificate with passes on the Ordinary grade in the fourth year. To a certain extent, therefore, their course must form a complete and satisfactory unit. At the same time, since every endeavour should be made to encourage these pupils to continue their education after they leave school, the courses provided

must afford a reasonable basis for the type of training to which most of the pupils appear likely to proceed.

"Jones of the pupils in this category will, however, with to continue their education is a school. For them two main possibilities exists. Some may elect to broaden their studies by taking additional subjects on the Ordinary grade, dropping loss, or the 171. Other may wish to proceed to the Bigher grade with a few of the subjects they have already successfully studied. Granted hencecasary shilly, they should be able to take the canamisations on the Higher grade with a reasonable may be able to take the canamisations of the Higher grade with a reasonable may be able to the three contentions of the Higher grade in the studies of the subject that the subject that the proceeding the Higher grade is more pupils of this calibre will succeed in reaching the Higher grade in some of their subjects that one on a trestent since, by following a course which at all stages has been within their scope, they will have granted confidence and a better grape of the chemisten of the subjects they

### THE REMAINING CERTIFICATE COURSE PUPILS

42. The remaining Certificate course pupils should be able to gain a certificate showing, in addition to passes on the Orificant prade, one or more passes on the Higher grade taken in the fifth year of their course. We are convinced that, given a lightening of courses and splatuses, especially in the early years, a greater variety in the class of the course of

43. If turned to good account, the proposed examination arrangements should make it easier to offer these pupils a wide variety of courses, differing not only in the subjects they include but also in their total weight. The fact that in future one of the two grades will normally be taken in the fourth year

and the other in the fifth oreates a very different situation from the present one where the Lower and the Higher grades are both intended to be fifth-year examinations. It is in our opinion essential that candidates should be allowed to retain any passes they gain in the fourth year whether or not they return to school (pangarph 171). Pupils could then, if they so desired, discontinue the value of once or more of the subjects in which they had passed on the Ordinary status of the contract of the contract of the contract of the contract in his Higher grade subjects and the total weight of his course would be lighter. Attentatively in ingits allow him to the and additional subjects or solely for interest. For example, it might be open to a pupil who had gained a pass in geography on the Ordinary grade to substitute history in the fifth year or to give the periods to an additional selence subject with a view of the contract of the product of the product of the product of the contract of the product of the product

44. The widening of the gap in standard between the Ordinary and the Higher grades as compared with that at present existing between the Lower and the Higher grades and the removal of the need to include specific subjects (paragraph 47) should likewise make it possible, by varying the number of subjects to be taken on each grade, to adjust a pupil's course more adequately than before to suit his capabilities. Moreover, the difference between courses will not depend only on the total demands they make; they may make these demands either in depth or in width. Thus it may be right for one pupil to concentrate on developing to the Higher grade his study of certain subjects in which his strength lies and to take on the Ordinary grade only the minimum number of subjects necessary to secure perhaps some preliminary qualification; another of comparable general ability may profit by taking on the Higher grade the minimum number of subjects that will meet his requirements and by widening his course through the inclusion of additional subjects on the Ordinary grade. The possible combinations are endless, and the new arrangements proposed should give to headmasters much more opportunity of introducing courses specifically designed to suit their own pupils.

# PLANNING OF CERTIFICATE COURSES

Possible effects of the Ordinary grade examinations on the curriculum

45. The introduction of the new Ordinary grade should, as we have suggested, make possible many variations of courses, and it may be helpful at this stage to summarize the different ways in which it might be made to fit into the curriculum. The majority of those pupils who from an early stage follow an Ordinary grade syllabus in certain of their subjects should succeed in gaining a pass in at least some of these subjects in the fourth year. If they are then allowed to discontinue the study of one or more of them (paragraph 43). thus lightening their total course, a considerable number of these pupils will, we hope, succeed in achieving the Higher grade passes they require in the fifth year and will be free to benefit from a genuine sixth year (paragraph 118). Others, as indicated in paragraph 44, might prefer to broaden their course in the fifth year by taking additional subjects on the Ordinary grade. It is probable that some pupils will require five years to reach the Ordinary grade standard in a subject or subjects, and they too will take the examination on this grade in the fifth year. Others again, having started out with the intention of taking all their subjects on the Higher grade and having ultimately found their course too heavy, may, even as late as the fifth year, decide to take one of their subjects

on the Ordinary grade in order to devote additional attention to those that remain; we trust, however, that the number of such pupils will be small, as we do not consider it likely to be to their advantage to leave the decision to so are a range (granginh 25). Pupils who begin additional subjects in the third contained the subject of the fordinary grade. Some very able pupils may take one subject to the Ordinary grade seel in the Fourth year and start another in its place in the fifth with the subject of the subject on the Higher grade in the fifth year will be free to take an intensive course in a subject of their choice in the sixth year; they will, in certain circumstances, reach level of their choice in the subject of the choice in the subject of the subjec

#### SOME PROPOSED CHANGES AND THEIR EFFECT ON PLANNING

46. Before headmasters begin to design their new Certificates courses, they should be aware of the implications of certain administrative changes likely to be made under the new transgements and of the main alterations proposed in schools will be affected and to plan their curriculum accordingly. We have causined certain proposals put forward by the Soutish Education Department recommendations on these matters and what we consider to be their probable.

repercussions. 47. At present, detailed proposals for all courses leading to Certificate presentation must be submitted to the Scottish Education Department for approval and the inclusion of certain subjects in these courses is compulsory. The Department have suggested that this stipulation be abandoned: we recommend that this suggestion be adopted and that no subjects should by regulation be made compulsory at any stage for Certificate courses. We recognize that the Department must retain a general oversight of the work of the schools and that H.M. Inspectors will continue to give advice with respect to courses. The immediate responsibility for ensuring that all courses provide a sound general education would, however, be transferred to the education authorities in consultation with their headmasters. We welcome the opportunities this would offer, but are of the opinion that the requirement of the Schools (Scotland) Code, Regulation 21(2), appears to be at variance with this proposal. therefore recommend that this regulation be reconsidered with a view to making it rather less restrictive than it now is. If these recommendations are adopted, each headmaster would then be free to re-plan the courses in his school without reference to the inclusion of any compulsory subjects. He could, whenever he considered it advisable and practicable, devise what at present would be unorthodox courses to suit the special circumstances of individual pupils. Moreover, he would be able to modify his Certificate courses from year to year

without seeking the prior approval of the Department.

43. We have given special consideration to excluding subjects which as the prior appeal consideration to excluding the prior of the

it is, in our opinion, unlikely that in these circumstances any of the subjects concerned would be entirely omitted, it is probable that some pupils would discontinue them after two years. Consequently it would be necessary to provide in each of these subjects a syllabus of a fairly general nature which could be covered in two years rather than three; such a syllabus should form a reasonably complete entity and at the same time should provide a satisfactory foundation for more advanced work. The subjects in question are art, music, science, history, and geography.

(i) In view of the need to provide for aesthetic education throughout, we feel that it is very desirable that courses should normally include both art and music in the first two years at least and that, if the study of one or both of these subjects is not continued, there should nevertheless be in every course some element of aesthetic education based on activities in art, music, drama, film appreciation, or the like. The experience of the schools in recent times in extra-curricular activities should be of value in this connection, and indeed some schools might find the development of such activities to be the best way of providing aesthetic education. We urge that schools be encouraged to undertake considerable experiment in this field both within and outwith school hours. Further, of the pupils who would previously have taken art and music for three years, while some would do so for only two years, others would continue to study at least one of them for an additional year, and would thus be able to complete a Certificate course in it.

(ii) Science is of such great importance in the modern world that we anticipate that most pupils would in any case continue the study of one or more branches after the second year. The syllabuses for the first two years should, however, be wide enough to give those pupils who do not take the subject any further an awareness of the importance of science in our everyday

(iii) We hope that either history or geography or both would be professed by most pupils to the fourth year at least, whether with a view to presentation on the Ordinary grade or not. It is, moreover, our belief that under the new arrangements more pupils than at present should be able to complete a Certificate course in both history and geography. Alternatively, some pupils might in the third and fourth years take a Certificate course in social studies (paragraph 51). Nevertheless, it is possible that a considerable number of pupils would study history or geography for two years only; syllabuses should therefore have regard to this fact. In the case of history, we recommend that, despite the difficulties involved, account should be taken, in framing syllabuses for the first two years, of the need for all pupils to have made some

study of the modern period.

We have considered questions relative to certain subjects which at present are composite-science, technical subjects, homecraft, commercial subjects-and, in the light of our observations and of representations made to us, we recommend that they should be divided into branches and that there should be, at least from the beginning of the third year, a separate syllabus for each branch. This proposed separation of branches is justified on various counts. In general, each of the branches is educationally of sufficient value to rank as a distinct unit, and as such it could be given more adequate treatment than it can at present receive as one part of a composite subject. Again, this division of composite subjects should make it possible to lighten a course by restricting the study either to one branch instead of two or to two branches instead of three or four. It would also allow a pupil who in the third and later years had not sufficient time to include all branches of a subject to continue the study of at least one branch. New and interesting combinations of subjects would become possible, e.g. for certain careers a pupil might find a useful course to be English, mathematics, physics, technical drawing, and art. The general proposal to separate the four subjects mentioned above into their component branches has already been put to the deucational bodies most directly concerned and has been accepted by them. We mention here the proposals outlined by the Soutish Education Department in respect of these composite subjects. These proposals we endorse in general, but we add certain recommendations.

(i) In the case of actine it is proposed to recognize five branches: physics, chemistry, bozzuy, zoology, and, on the Ordinary grade only, blology, a combination of tourist, the combination of the control of the combination of this policy for the examination on the Higher grade and we are of the opinion of this policy for the examination on the Higher grade and we are of the opinion of the combination of t

(ii) In technical subjects the proposed branches are woodwork, metal-work, drawing, and applied mechanise. It is probable that the majority of pupils will study more than one branch, but, as in the case of science, it should be possible for pupils to take a single branch and to be presented in it at the examination on the Ordinary grade. In respect of technical subjects also we are of the opinion that there should be immediate consideration of

future policy with regard to the Higher grade examinations.

(iii) In homecoff it is proposed that at the Ordinary grade level there should be two branches: (a) home-management and (b) dress and design, each of which could be taken separately and could qualify for a pass on the Ordinary grade at the Certificate examination. On the Higher grade there would be three branches: (a) home-management, (b) dress and design, (o) nursing subjects.

(iv) The proposal formulated for commercial subjects is that there should be three branches leading to presentation on the Ordinary grade: (a) shorth hand and typewriting, (b) principles of accounts, (c) exconnice organization. The ordinary of the ordinary ord

50. We considered the advisability of sub-dividing English into English anapuage and English literature but agreed to recommend that English should continue to be a single subject as at present. It was fish that a separate paper in literature would be practicable only if texts were prescribed and that this would take away the teacher's freedom to plan his syllabus. The study of literature in schools should be essentially the reading of good texts and should not such as the subject of the study of the stu

be divorced from the rest of the work in English.

51. We further recommend that provision be made for the introduction of Ordinary grade Certificate courses in a number of additional subjects: biology (paragraph 49), social studies, applied mathematics, horticulture, and navigation. Other subjects might subsequently be offered, should the need become apparent.

ther subjects might subsequently be offered, should the need become apparent.

(i) It is undoubtedly desirable that the teaching of biology should be developed in Scottish schools, and some of the smaller schools in particular

may wekcome a two years' syllabus in biology following on a two years' course in general science. Normally biology would be taken by pupils who did not intend to study this subject beyond the level of the Ordinary grade, but we have been advised that a pupil should be able after two further years' study to attempt the examination on the Higher grade in either botany or zoology or in both, according to the time allocated within his conding to the time allocated within his complex.

(ii) While we consider that all pupils should include history and goognaphy in their course, we realize that for many it will not be possible to continue the property of t

study. The introduction of a course in epipled mathematics, starting normally, at the Septiming of the third were, would be valuable for some side propils who intended to leave school after taking the Ordinary grade examinations and to continue their formal education outwith school. It would probably be taken by other pupils in the fifth year as a development of their study of pure the propils in the fifth year as a development of their study of pure research that the propils of the subject at th

(iv) Horticulture might prove to be a more practicable subject for some schools than agriculture, and in certain areas, e.g., in large towns, it would

have a more immediate appeal, especially perhaps to girls.

(v) We consider that there is a strong case for the development of Certificate courses in nautical subjects and that meantime the branch of navigation should be recognized as a subject for Certificate purposes.
52. We also recommend that arithmetic be given the status of a subject

52. We also recommend that arithmetic be given the status of a subject qualifying for a pass on the Ordinary grade. This recommendation we feel to be justified both by the educational value of the subject and by its importance in

the modern world.

53. If these recommendations are accepted and courses re-organized so as to take full advantage of the new possibilities, then it should be easier to put into practice some of the changes we have been advocating. It should, for example, he possible to effect a lightening of the curriculum in the early years, an ultimate enrichment of the course provided for the very sloset pupils, and, in offered, and the content and in the difficulty of the course offered.

STARTING-POINTS FOR PLANNING AND GENERAL PRINCIPLES TO BE OBSERVED.

54. Before beginning to plan the organization of their seboels in detail, badmasters may find it useful to look closely at the courses they have previously offered. They might, for example, begin by considering whether there has been from any of these courses either a marked falling-off in numbers or a marked reduction in interest and, if accessary, they should attempt to discover why this necessor is the contract of the course of their contract them. The contract the course of the course to minimize them.

55. It has so often been stressed that the only satisfactory starting-point for any consideration of courses must be the pupils themselves that it may seem unnecessary to mention it here. Nevertheless, over the years there appears to have been an increasing tendency simply to equate a type of pupil with a type of

course (panagraph 10), instead of studying the pupile probable requirements. A course can, however, be considered a satisfactory one only if it fulfills certain probability of the pupile should be proposed as p

each of these aspects in turn.

56. It should always be one of the main aims of a school to provide its pupil with a good general deutsoft, we have already suggested (puragraph 19) that, because of their educational value and usefulness, certain subjects should have been always to the pupil which the subjects which is the subjects to the pupil which is the state of the pupil who intends to specialize in them. What is important is that the course as a whole should provide the pupils with a good background of general knowledge and should an intelligent interest in what is going on around them and play a useful part in the community in which they live. No course can provide the pupils with all the general information they will eventually require, and they must therefore efforts and how to use it to increase their knowledge and understanding.

57. Each course must also provide an education which is general in the sense that it should cater for the many aspects of the pupils' development and should not concentrate too exclusively on any one. It should, therefore, make due provision for the pupils' intellectual, aesthetic, and physical education. 58. We omit any reference to religious education, since it lies outwith the

jurisdiction of the Secretary of State and therefore does not fall within our renait, Nor do we specifically mention moral education, since we do not consider that moral education is something which can be included in the school curriculum; moral education should come rather from the tone set in the school as a whole and it should be reinforced by every school activity. The fundamental whole and it should be reinforced by every school activity. The fundamental 99. Again, care must be taken to ensure that the purplis are given the oppon-

tunity of cultivating those qualities of character to which extra-curricular activities can contribute so much: qualities such as the ability both to lead and to be led, willingness to co-operate with others, initiative, resourcefulness. It must not be forgotten that the pupil who leaves school early will require this training as much as the one who continues to the sixth year. Some pupils will develop these qualities naturally either in or out of school but most require to be given encouragement, opportunity, and training. The total weight of a pupil's course must therefore not be such that he is unable to take part in worthwhile extra-curricular activities. The attempt to make pupils follow a course which is in fact too difficult for them has often led to the neglect of this essential aspect of their education, but one of the greatest contributions the school can make to society is to help pupils to develop into responsible, reliable, and mature We recognize that many schools are at present hampered in their attempts to promote such activities by difficulties experienced in connection with transport arrangements, and we strongly recommend that education authorities should make every effort to overcome these difficulties.

60. We have already underlined the importance of providing courses of a standard appropriate to the pupils (gangraphs 4, 23). Each course should afford the pupils who are taking it full scope to develop their abilities without causing them under strain; that is, the course should be for each pupil a demanding one, but it should be such that at all stages it remains within the trach of must be kept under review so that it can be made more or less openous as the must be kept under review so that it can be made more or less openous as the

pupil's abilities and limitations are revealed.

 A course must satisfy the immediate needs of the pupils, arousing and maintaining their interest. Much will depend on the planning of syllabuses in the individual subjects and on the methods of presentation (paragraphs 28, 39).

Both content and methods should be carefully varied according to the ability of the pupils, their age, and their interests as far as these are known.

62. In addition, time should be made available for the development of special interests, which not only can provide a pupil with immediate satisfaction and relaxation but at the same time may form the basis of desirable leisure-time pursuits. We realize that in some schools it will at present be very difficult to make adequate provision for the encouragement of these special interests. Nevertheless this is a matter of some importance, since with the shortening of working hours in industry the ability to put the increased leisure-time to good use will become even more important than it is at present.

63. No course of study can be considered adequate which does not prepare for the next stage of the pupil's education. Increasingly, as the pupils' requirements become better defined, an effort should be made to relate courses to the pupils' probable future employment or training. Just as we advocate close collaboration between primary and secondary schools to ensure smooth progress from the one to the other, so we recommend that all possible steps

be taken to make it easy for pupils on leaving school to move on to appropriate forms of organized post-school education (paragraphs 123 to 138).

64. To sum up, we envisage that the courses provided will cater at all stages for the intellectual, aesthetic, and physical aspects of the pupils' education. Initially, so that a thorough grounding can be given, the courses should not be too onerous but they should be sufficiently broad to provide a general education and to permit ultimately a choice of career: at all stages the courses should be of appropriate standard and should have regard to the pupils' immediate needs; in the third and later years particular account should be taken of vocational requirements and this consideration may materially affect the choice of subjects to be professed at the Certificate examinations. All courses should allow pupils to take part in extra-curricular activities.

#### APPLICATION OF GENERAL PRINCIPLES

65. Ideally each pupil's course should be designed to satisfy these general conditions and so to accord with his individual abilities, aptitudes, interests, and aims. This does not imply that there should in practice be as many courses as punils. The same course is frequently the most suitable one for a considerable number of pupils, who can therefore be grouped together. Moreover, the number of courses which can be provided will inevitably be limited by such factors as the availability of staff, accommodation, and equipment. Where, therefore, it is not possible to satisfy in detail the individual needs or desires of all the pupils, some compromise will be necessary and this may affect different schools in different ways.

66. In small schools, where the number of courses offered is necessarily restricted, the needs of each age-group may differ considerably from those of preceding classes and different compromises may have to be arrived at in successive years. For example, in a given year, if, out of fifteen pupils who wish to take physics, five would like to take technical subjects and one to take German, it would obviously be preferable to make physics an alternative to German rather than to technical subjects; if, however, the reverse were true in the following year, then the time-table should, if at all possible, be modified to meet the new situation. In other words, where a compromise is necessary, it should be such as to suit the majority of the pupils concerned, and the curriculum of the school should not be rigidly fixed from year to year.

67. In larger schools we feel that it is very important that the complexity of organization should not deter headmasters from studying the needs of the individual pupils. Fortunately, the requirements of most of the pupils will fall naturally into certain definite patterns which can be catered for without undue difficulty. At the later stages a choice of subjects can usually be offered wide enough to make it possible to find for most pupils a course which is suitable for them, and it is hoped that the number of options can be materially increased under the new arrangements. In many schools the number of options available is already surprisingly large, but in others the need for greater flexibility is clamant. In both large and small schools, headmasters at present find that variations for individual pupils can be arranged, and a wider introduction of independent study and of short courses (paragraphs 93 to 101) should make it easier to cater for individual needs.

#### SUGGESTIONS AS TO DRAWING UP COURSES

68. To attempt to survey the many possible combinations of subjects which might be adopted would clearly be unprofitable, since the ultimate choice must be made in the light of the particular circumstances of each individual school. Many headmasters will find that the traditional courses common in most schools will continue to be appropriate for certain pupils, but for many others they will have to devise new and different courses. We feel that the following suggestions as to the planning of each year's work may be useful to headmasters in their difficult task of framing suitable courses, but it must be emphasized that these are to be regarded as suggestions only and headmasters should feel completely free to choose a different approach to the problem of planning the curriculum. 69. In making these suggestions, we assume that every course will at all

stages make provision for religious education, physical education, and aesthetic education and that approximately a fourth of the time available will in fact be given to subjects which are not expected to lead to Certificate presentation. Moreover, it will be noted that in this Report we do not suggest the number of teaching periods to be allotted to each subject in a course, lest it be taken as mandatory. Pupils and classes will differ in the amount of time they require to cover the same syllabus, and headmasters must be at liberty to adjust their

time-tables accordingly.

70. First Year: We have already dealt at some length with the first year of a Certificate course (paragraphs 14 to 22). Since munits are only at the beginning of their secondary school career and since their special aptitudes and abilities are not yet known with any degree of certainty, the variations between courses will be comparatively slight as far as the subjects offered are concerned. As has already been pointed out, it is important at this stage to ensure that the courses are not overloaded but are nevertheless sufficiently general in content and wide in scope to allow considerable choice at a later stage. The main question will naturally be which subjects are to be included. It is probable that in most schools the headmaster will build his first-year courses round the following core of main subjects: English, history, geography, mathematics, science. The aesthetic side will usually be catered for by the inclusion of art and music in the course, whether as main subjects or not. This group of subjects may be sufficient for some pupils, but for most the headmaster will wish to add at least one other. The choice is likely to fall on one of the following: a foreign language; homecraft; technical subjects. In addition, he might be able to include, for general interest and to broaden the course, two or three periods of a subject not included as a main subject. For instance, if the additional subject chosen is a foreign language, it might still be possible to include some periods of homecraft or technical subjects; and vice versa,

71. The courses which would result from this procedure are naturally not endy ones possible. For example, in a school which draws its pupils mainly from its own primary department enough may be known about the aptitudes of the pupils to make it advantable to offer some of them a slightly different course. Thus, it might be full course in mathematics; these pupils might be better strengt by a course which save reduced time to mathematics but included.

perhaps both bomecraft and art. 72. Second Year: A review of the pupils' work made at the end of, or during, their first year (paragraphs 21, 22) will doubtless show that for many the courses they are following are adequate for their requirements and already sufficiently onerous. These pupils should therefore continue the study of the same subjects as they bave studied in their first year. For others, some adjustment of their course will be necessary. If the course in the first year has been wisely chosen, there should rarely be any need for a pupil to discontinue the study of a subject at this stage. Indeed, there is a risk in discarding a subject too soon: some pupils are slow to grasp anything new, but once they bave begun to understand make steady progress; others are disinclined to persevere with anything which is not immediately to their taste, but some of them might later come to regret a too hasty decision. Adjustment at the start of the second year will therefore most frequently mean the addition of a subject for those who have shown that they are in fact capable of carrying a heavier load. Some, for instance, will add a second foreign language or take as a main subject one to which they had previously given only a small allocation of time, such as music or homecraft. It may be worth noting that in the case of the present composite subjects (with the exception of commercial subjects, with regard to which we consider that sborthand and typewriting should not normally be introduced before the third year) there will usually be a general syllabus for the first two years and it will not be advisable to concentrate at this stage on one branch only.

73. Third Year: As we bave indicated (paragraph 24), there will normally be at the start of this year a change from a general course to a more specialized one. A preliminary decision will have to be taken about the subjects which each pupil will study for Certificate purposes and about the standard of syllabus he will follow in each subject. The choice of subjects will to a considerable extent be determined by the pupil's aptitudes as shown in the preceding years. This is true not only as regards those subjects which be has already studied, but also in relation to subjects which he now wishes to begin. A pupil's previous success or failure in certain subjects may give a valuable indication of how be is likely to fare should he now attempt a short course in other subjects of a similar nature. Regard will also be had to the pupil's interests and, where this is known, to his probable future career. The choice of subjects may, however, be affected by limitations of staffing and accommodation. We recognize the difficulties and dangers of making such a decision while pupils are still relatively immature. Each pupil's course should, therefore, continue to be so designed as to allow at later stages the maximum of choice possible and should not be too narrowly conceived; it should not, for example, contain a large number of subjects of the same type unless a pupil has shown himself to be exceptionally gifted along one particular line. At the same time the subjects must not be chosen at random simply because the pupil happens to fancy studying them; every course ought to have coherence and self-consistency. In some instances the inclusion or exclusion of one subject may determine whether certain other subjects are to be put in or kept out; for instance, if a boy intends to study

74. It should be noted that many of the subject courses which were previously begun in the fourth year will now have to be introduced at the

physics, clearly his course should also include mathematics.

beginning of the third. Some pupils would then be ready for presentation on the Ordinary grade in the following year; others might require a further year. Subjects likely to be started at this stage include a second or third foreign

language, commercial subjects, and applied mathematics.

Sooner or later a headmaster must test whether the courses he wishes to provide are practicable, given the staff and accommodation at his disposal. The crux of the problem of organizing for flexibility and freedom of choice is to afford as many options as possible between subject and subject, having regard to the need for preventing subjects which may frequently be required in combination from being made mutually exclusive. After a preliminary examination of the requirements of their pupils, some headmasters may find it useful to begin by setting down the options they think suitable and practicable, particularly for the third and fourth years. It might then be immediately apparent what courses of wide appeal could be organized, with or without further provision of staff or accommodation, and what the possibilities were of meeting

the anomalous requirements of individual pupils. 76. To illustrate this type of approach to the problem of planning the curriculum for the third year, we set out below a sample table of options. This table is purely tentative and is not to be taken as universally applicable; indeed, we are conscious that, as it stands, it excludes some popular and desirable combinations of subjects. The grouping of subjects should be determined by the individual circumstances of each school and it should, if necessary, be modified from year to year to meet the particular requirements of the pupils for whom the courses are to be planned. The table given here is based upon a wide range of subjects, but may prove suggestive to, and adaptable by, schools which do not profess so many. In as much as it does not demand the " streaming" of pupils but depends rather upon "setting," it may be found to be to a large extent independent of numbers enrolled. Its already considerable width of choice can be greatly extended by any school able to include any subject or branch of a subject in more than one group of options.

(1) Aesthetic and physical and religious education. (2) History or geography (not pursued as a main subject) or arithmetic

(for pupils not studying mathematics).

(3) English. (4) Art or music or a homecraft or mathematics.

(5) A commercial subject or a science or Latin or German or Russian or

(6) French or Greek or a technical subject or a science.

(7) History or geography or a commercial subject or a homecraft or a technical subject or a science or a language or additional instruction found necessary and practicable in any other subject or subjects.

This grouping would permit an immense variety of combinations of subjects -between five and six hundred. Some of these combinations would be unorthodox, but would not on that account necessarily be inappropriate: others

would be merely eccentric and would not be seriously considered.

77. Further adaptations of the above table are possible. For example, while it does not cater for both history and geography as main subjects, the extra time devoted to one or other as part of group (2) should go far towards sccuring that additional possibility. Again, although the table primarily provides for pupils taking five main subjects, it should be possible, without unsetting the general scheme, to arrange for certain pupils to take more or fewer subjects; and we suggest how this might be done. We have refrained from giving specimen allocations of time, lest these should come to be regarded as authoritative standards, but it will nevertheless be obvious that the time afforded to group (2) must be comparatively slight and that group (7) would probably receive rather less time than each of groups (3) to (6). If, as would seem not unreasonable, groups (2) and (7) together engross as much time as one of the other groups, most school departments would in fact receive a total allocation of time not less, and for certain pupils in certain subjects decidedly that the contraction of the contract of the contract of the contract of the table and the contract of the contract of the contract of the contract of the total engineers of the contract of the contract of the contract of the data contract of the contract of the contract of the contract of the attention to four main subjects might be provided for on the lines suggested with the last alternative in group (7). By such provisions, which would likewise vary from school to school, we timit it probable that schools would be able to addition.

78. Fourth Year: This is the year towards the end of which the new examinations will be taken. Normally there will be no further modification of course in this year. It should, however, again be emphasized that any pupil who intends to attempt the Higher grade examination in any subject in the fifth year should have progressed well beyond the level of the Ordinary grade

examination in that subject by the end of the fourth year.

79. Fifth Year: For pupils following courses leading, in all their subjects,

to presentation on the Higher grade in the fifth year, this year will usually einsteined as regards choice of sulpices and allocation of time with the previous one. The majority of pupils, however, will attempt at least some subjects on the Ordinary grade in the fourth year and their curriculum in the fifth year will be largely influenced by their successes in the fourth-year examinations and by waiting the property of the pro

# WAYS OF IMPLEMENTING PROPOSALS

#### SETTING 80 V

80. We have advocated that syllabuses in the various subjects should be differentiated according to the shilties of the pupils for whom they are designed (paragraph 22) and that from at least the heigining of the third year a protein a state of the pupils of the state of the pupils of the state of the state in the first instance on the Ordinary grade on which on the Higher. If then it is to be possible for pupils to pursue in each of their subjects either an Ordinary grade or at Higher and correct according to their ability and aptitude for it, it follows that the composition of the classes cannot be the same for every by our promosals. It is bleey to be internationally the proposals of the classes cannot be the international processing the purpose of the class of the state of the purpose of the purpose of the purpose of the state of the purpose of the purpose

ny our proposass.

The best solution is probably to synchronize the time-tables of all pupils at each stage, that, as facts possible, he symple can be divided for each pupils are tach stage, that, as facts possible, our "ses" according to their aptitude for that subject and trapactive of their grouping for other subjects. A considerable number of schools already use such a system of sets for the fourth and fifth vers and it seems likely that with the advent of the Ordinary grade

examinations they will find it advisable to introduce it in the third year also. Some headmasters may, in fact, find it advantageous to "set" from the second year upwards, especially in view of the desirability of differentiating between syllabuses as soon as the need for this becomes apparent (paragraph 23). It is doubtful whether enough is known about the pupils' apptinde for individual

subjects to make "setting" expedient in the first year.

82. Those headmasters who have made full use of

82. Those headmasters who have made full use of the setting system are convinced that its advantages greatly outweigh any additional difficulties in une-tabling. There are, however, certain prerequisites for the successful to the setting of th

83. The obvious advantage of setting over the system of time-tabling by classes is that each pupil may undertake in each subject the level of work most appropriate for him and may progress at the rate best suited to his aptitude for that subject. Thus, a pupil good on the language side but weak in mathematics may do English and Latin in the top set but mathematics in the fourth set. Transfer from one set to another in any individual subject is relatively easy, especially in the younger classes, and the system does make it easier for a pupil to work his way up from set to set. It has been noted that this system can have a very salutary influence on pupils. To be placed in a higher set for even one of his subjects may enhance a pupil's self-respect and may profoundly affect his whole attitude to school. Setting can in fact help pupils to develop to the fullest degree possible the gifts they have and, as the pupils are working at a rate within their power, it lessens the risk of discouragement. Transfer from one set to the one immediately below it, where the work is slightly less advanced, may help a pupil to regain his feet in a subject of which he has missed an important part through illness or which he is beginning to find somewhat difficult.

84. It is generally agreed that setting is more desirable in some subjects than in others. For example, the need to divide according to aptitude is much less great in a subject such as art, where the work is largely individual; by contrast, in mathematics, a science subject, or a foreign language, syllabuses should differ considerably according to the abilities of the punils following them and it is a distinct advantage to have a reasonable degree of homesencity in the

grouping of pupils.

The extent to which setting is possible in individual schools and in individual subjects depends naturally both on the number of pupils and on the number of available teachers. Where the number of sets is the same as the number of classes in any given year, setting can frequently, but not invariably, be carried out without any additional staff. A school which has six classes in each of the first three years but comparatively small numbers thereafter may have only five teachers of a given subject, but would require six if the classes in any of the first three years were to be time-tabled simultaneously. Partial setting may, however, be possible without additional staff, i.e. classes could be linked together in groups, each consisting of two or three classes, and setting would then take place within each group of classes, which could be time-tabled independently of the other groups. It is probable that an arrangement of this sort, i.e. setting within groups of classes, would frequently be required for a subject such as science, since there might be for a practical subject as many as twice the number of classes and neither staff nor accommodation would be available to allow all the sets in any of the earlier years to be taken simultaneously. On the other hand, setting may sometimes be economical of staff;

e.g. in a practical subject, five sets may be adequate for three classes which, if

time-tabled separately, would require six sections.

86. In small schools and for certain subjects in larger schools setting is rarely practicable. On the contrary, it may be necessary to time-table the Ordinary grade and the Higher grade classes at different times for the same subject so that the sole specialist teacher of that subject may be able to take each class separately. Again, in many departments throughout the country the numbers taking a given subject will be so small that all the pupils, whether they are aiming at the Ordinary or the Higher grade, will have to be taken in the same class.

#### GROUP TEACHING

87. The difficulties which arise when setting is not possible are by no means new, but they may be aggravated by the fact that there will in future be two main examination years and a wider gap in standard between the two grades than at present. Clearly the pupils cannot follow a common syllabus. Many teachers have found that the best solution of this problem is to adont a form of group teaching, i.e. the pupils are really divided into small sets within

the class itself and taught accordingly.

88. Apart from its value in making reasonable flexibility and differentiation of courses possible in many schools, group teaching can afford many opportunities for training pupils to work both independently and in close co-operation with others: it may also allow the teacher to make closer contact with his pupils. especially with those who are normally inclined to be diffident. The successful development of this method of teaching in many primary schools, even with large classes, bas shown how valuable it can be. Many of the pupils now in secondary schools have in fact already bad considerable experience of working in groups within a class, and it would be unfortunate if this training were not used to belp overcome the problems of the smaller secondary schools and departments, or indeed of any class in which the range of ability is considerable.

89. To carry out this method successfully, it is essential to plan the work very carefully beforehand, so that valuable time is not lost by a group's being left with nothing to do and so that each group receives a fair share of the teacher's time and attention. One criticism of this method often made by teachers in secondary schools is that it is impossible to give, say, three groups a reasonable amount of attention within a teaching period of forty to forty-five minutes. It is not, however, necessary that each group should be given the same amount of attention within each period; one period can be used to balance

another. 90. Some teachers besitate to embark on group teaching because they think it must involve excessive correction of written work. Pupils working on their own need not, however, spend all the time writing; they may equally well be engaged in such activities as reading or memorizing. Nevertheless it would be wrong to pretend that group teaching does not make beavy demands on the teacher in the preparation of work and the planning of assignments. We believe, bowever, that such demands are a challenge to professional skill which the trained teacher will readily take up.

#### ENSURING FLEXIBILITY IN THE FIFTH AND SIXTH YEARS

Many pupils who gain passes in a number of subjects on the Ordinary grade in the fourth year will undoubtedly wish to discontinue the study of one or more of these subjects in the fifth year, should the new regulations make this permissible (paragraphs 43 and 171). If the utmost advantage is to be taken of this possibility, the time formerly allocated to these subjects must be fully an usefully employed, preferably in such any was to give the individual pupil what he most needs. Schools are, however, unlikely to have sufficient teachers to make it possible to organize classes in every subject at a time satisfact except every pupil who wishes to take it. The available time can probably be most secessfully used if provision is made for one or more of the following: (a) regulate supplementary or needs; to be a number of short courses; and (a) individual south verticals.

92. Supplementary classes may be of particular benefit to pupils who require extra tution in the subjects offered. The subjects chosen will usually be those which are common to most course, for instance English or mathematics, or those of general and white instances to the control of the

93. Under the type of organization we envisage, the beginning of the fifty sear will be an appropriate time for pupils, sepscally the ablest, to take up short course in one or more subjects. Many jupils who then have a number of the subjects and may be ready to emback on the study of a new subject. To provide an adequate range of worth-while short course will be no easy task, but to do will greatly benefit the pupils. These short courses will sustaily be of two so will greatly benefit the pupils. These short courses will sustaily be of two since most of the pupils concerned will be taking examinations on the Higher grade in that year and will therefore not be in a position to do much preparing for these new subjects. The courses should, however, become more demanding means on all test the Ordinary rande in that year.

94. A pupil may wish to take a short course in a subject for reasons of expediency. He may, for instance, for side in excessing volagist his course if at an extraction of a side of the course of the

95. It must not be assumed that short courses are of value only if they lead to passe in the Certificate examinations. Some pulpis may with advantage fit in a short course in a subject in which they are especially interested or which represents the course of the certificate examination. A grid aiming at primary school teaching might, for instance, find it very helpful to take a short course in year of the first part of the certificate experiment with abort course of this kind way at a blazing or belongs. Further experiment with abort courses of this kind way at a blazing or belongs. Further experiment with abort courses of this kind way at a blazing or belongs.

96. Staff must be available to plan syllabuses for short courses and to give some instruction in them. There is, however, no reason why part of the work of a short course should not be done by the pupils themselves working independently; indeed, this is the normal practice in many schools. For example, a teacher might be available to take certain pupils for a subject for only three four periods, and the pupils might then supplement this instruction by two or three periods of individual study under general supervision.

97. When pupils have acquired the habit of studying independently, it becomes possible to allow a much greater variety of courses in the later years and thus to eater more fully for the needs of individual pupils. Not only can a greater number of short courses be fitted into the curriculum, but pupils can also be given the opportunity of spending additional periods in studying subjects in which they are comparatively weak, even if no teacher is available to given.

direct instruction at the time.

98. Apart altogether from questions of time-tabling and organization of courses, there are strong arguments in favour of encouraging pupils to study by themselves. A secondary pupil ought to be able, by the time he leaves school, to carry out a considerable amount of study on his own initiative, although under the general guidance of his teachers. If he has not learnt to do to before heaves achool, he will have pread difficulty in undertaking successfully courses the leaves achool, he will have pread difficulty in undertaking successfully course work independently, e.g., or elsewhere, since he will then be obliged and only to work independently expendently responsible for organizing alse work in several different subsects.

At the same time it would be unrealistic to expect pudils suddenly to embark on independent study without any previous training, and we would therefore suggest that there should be from the first year onwards a conscious and progressive training of the pupils towards this end. The suggestion has been made (paragraph 20) that in the first year some time might be given to supervised study or preparation periods. It is a recognized fact that many pupils do not find it easy to overtake their preparation at home: the distractions of television, radio, record-playing, and the like often make concentration very difficult, if not impossible; moreover, homework is not set in all primary schools and pupils from some schools may have had little experience of working on their own. It is relevant to note here that in certain areas experiments have been made in opening schools in the evening so that pupils can return to do preparation under the supervision of teachers: the pupils are not under active instruction, but the essential conditions for study are provided. An extension of this practice to school hours may well be justified, especially for the younger classes. (Normally additional staff and classrooms would not be required since in any case the classes would have to be supervised and housed.) During these periods pupils should from time to time be shown, if they do not already know, how to apportion their time among a number of subjects, how to use reference books, where to look for information, how to take notes for future reference. Many pupils will have to learn the very hard lesson of concentrating when not under active instruction. The teacher will, however, be there to prevent any pupil from disturbing the others: Later the pupils may be entrusted with longer assignments of work so that they can have practice in planning their work not for a day at a time, but perhaps for a week or a month. Once senior pupils have learnt to work on their own they should as far as possible be allowed to do so in the school library or, preferably, in small reading-rooms; they will find it easier to concentrate in satisfactory surroundings than if they have to study at the back of a room in which another class is being taken (paragraph 152).

100. Many headmasters already arruage study periods during which their older pupils work independently. Others would probably find that their timetables could be made more adaptable if they introduced this practice. It is quite possible that some of the pupils may initially make slower progress during these periods than if they were being taught, but even that may be a sultary lesson which is perhaps better learnt at school than, for example, at the university.

101. While we realize that the conception of independent study is not new, we believe that under the new arrangements there will be a very considerable increase in the number of pupils undertaking it, especially in the fifth and sixth years. In our opinion it is of paramount importance that there should be nothing haphazard about such study. It follows that headmasters and teachers must give considerable thought and time to planning the most effective use of these study periods. The headmaster must ensure that no pupil spends an undue amount of his time working by himself. Some pupils, having discontinued two or more subjects in the fifth year, may have a considerable portion of their school week available, but only in very exceptional circumstances should a numil be allowed to spend all this time in individual study. It is also the headmaster's responsibility to see that too much is not expected of the pupils during their study periods. There must be no question of a number of different teachers all prescribing work to be done in these periods, unless there is a clear understanding among them of the amount of work each can reasonably expect. Certain teachers must be given direct responsibility for guiding the work of the pupils and for checking their progress regularly. This must be a recognized part of the duties of these teachers, and they must be allowed adequate time to carry it out. It would be unfair to expect them to undertake this task in addition to an already heavy teaching time-table.

# IMPLICATIONS OF PROPOSALS FOR CERTAIN TYPES OF SCHOOL

### THREE-YEAR COMPREHENSIVE SCHOOLS

102. Special problems arise in connection with those schools which at present provide in first part of Certificate course for a number of their pupils, that is, the present three-year comprehensive tachools. Bittherto the most tunal set is the property of the present three-year comprehensive tachools. Bittherto the most man at the end of the bind year and to complete their courses at a central senior secondary school. In future, transfer at this stage will not be practicable, since it would be fooliab to expect pupils into one and the same session to transfer to a new achool and to at the other present the pres

103. On educational grounds it is best for pupils to have all their secondary education in the one school. We therefore recommend that, whenever possible, arrangements should be made whereby pupils do not have to change their school before completing their Certificate course. In most cases this means that all pupils considered capable of taking a Certificate course should be brought into a senior secondary school at the promotion stage. The advantages of this arrangement are obvious. The pupils then have a continuous and uninterrupted course and avoid any change in mid-stream from one school to another which may have different syllabuses and different methods of instruction. Moreover, they benefit from the wider choice of subjects which the larger school can offer and they can be taught in more homogeneous groups. In many instances all Certificate course pupils do at present go straight from the surrounding primary schools to a central senior secondary school and we believe that an extension of this system would be justified. Nevertheless we recognize that, in certain circumstances, such an arrangement would have serious disadvantages. For example, comparatively large numbers of young pupils might be obliged to travel daily long distances to school or to live away from home in towns where it might be difficult to make satisfactory provision for them. Again, the central school might become so large that young pupils, especially those coming from very small primary schools, would almost certainly feel completely bewildered. Where, then, the disadvantages of immediately assigning all potential Certificate course pupils to the central school outweigh the advantages of this system, other

course pupus to the central school outweigh the advantages of this system, other solutions of the problem must be found.

104. In some areas it has been customary for pupils allocated by the

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this system of differential transfer.

105. If Certificate course pupils are not sent to the central school at the untest, should they all be transferred to it at the beginning of the third year or should the present three-year comprehensive schools develop four-year course in order to take their pupils up to the level of the Cordinary grade? This is a title most study the circumstances of each school and must then decide while course of action would be in the best interests of the pupils. A decision to allow any school to develop four-year Certificate courses should, however, be taken only if the school can be adequately standled and equipped for the purpose of Certificate presentation. In considering this very important matter, those of the course of the course of the purpose of the pupils that any present could be considered potential candidates for the Certificate.

106. Should an education authority, having examined all implications. feel obliged to decide against centralizing all Certificate course pupils at the beginning of the first year and should it also decide against allowing some or all of its sending schools to develop four-year Certificate courses, we consider that the beginning of the third year is the most appropriate time to choose for transferring pupils to the central school. By the end of the second year the teachers in the sending schools should be able to assess the pupils' capabilities with reasonable accuracy and should be able to suggest to the central school the type of course for which each pupil appears suited. Again, the change from a purely general course to a more specialized one will usually take place at the beginning of the third year (paragraph 24) and this is therefore a reasonable time at which to effect a transfer. Many courses which were formerly started in the central schools in the fourth year will in future be begun a year earlier and pupils transferred at the beginning of the third year would be able to benefit from these. Transfer to the central school at this stage would therefore enable pupils to take advantage of the wider choice of subjects offered by the central school and would allow them to have uninterrupted courses of reasonable length leading to presentation either on the Ordinary grade in the fourth year or on the Higher grade in the fifth, although it must be recognized that they would not have the full benefit of complete continuity from the first year.

nave the full benefit of complete continuity from the first year.

107. It is, however, necessary to mention also whether of this 107. It is, however, necessary to mention also the similar of the Certificate course have always been considerable, and they may be intended under the new arrangements. There is a risk that the pupils transferred may find it very difficult to feel that they really belong to their new school. In some cases, they may have come from a primary school to the sending school only two years previously, and to be transferred again after such a short interval down by the time they reach the statutory school leaving age, they are outlet of the school of the transferred again after such a short interval down by the time they reach the statutory acknowledgeria age, they are outlet

likely to give up their course altogether. Moreover, the courses these pupils have been following in the sending school for the first two years may not always lead on naturally to those in the receiving school. There are sub-particular the properties of the proper

108. If an education authority decides that a sending school should develop flouryear Critificate courses and is able to make the necessary arrangements, papils aiming at the Ordinary grade examinations only will then be able to take their whole course in this school without interruption. Any of these pupils who in the third and fourth years show the necessary ability is should be encouraged day school with a view to taking Certificate examinations.

subjects on the Higher grade, but it must be recognized that they will require

two more years to reach the necessary standard (paragraph 41). 109. Pupils who give clear promise of being able to take Certificate examinations on the Higher grade in the fifth year would, however, normally he handicapped if they remained in the sending school until the end of the fourth year of their course. They would seldom be able to reach the standard of the Higher grade examinations in one further year and they would therefore almost certainly lose a year as compared with pupils of equal ability in the central senior secondary school. Moreover, the sending school would rarely be able to offer them as great a choice in combinations of subjects as would the larger central school, and this might prejudice their chances of ultimate success on the Higher grade, since they might not be able to follow the courses for which they were best suited. We therefore recommend that all pupils in sending schools who by the end of the second year have without doubt shown themselves to be capable of presentation on the Higher grade in the fifth year should be transferred at the beginning of the third year to a central senior secondary school. even if the school they are attending provides a four-year course. This arrangement would incidentally have the advantage that the pupils remaining in the Certificate courses in the sending schools would be those aiming primarily at the Ordinary grade examinations, and this should make it easier for the sending schools to organize their courses and to plan syllabuses.

ing allow to organize effect obtains and organ thylinoiseles, be summed up as follows. Of the schools which a present provide the first part of Certificate courses, some should in future ceuse altogether to do so; a few may keep their certificate course, some should in future ceuse altogether to do so; a few may keep their certificate course pulpid for two years only and then transfer them all to the central school; others again should develop four-year courses for those aiming at presentation on the Ordinary grade such so that do marked a the deplaning of the state of the schools and develop four-year criticate courses and may then serve as a central school for develop four-year criticate courses and may then serve as a central school for the others as far as the pupils who are aiming only at the Ordinary grade caminations are concrened. It is else that education authorities will have to review their schemes of educational provision very carefully its sill have to review their schemes of educational provision very carefully in the school for the others are some schools and develop course.

11. It is essential in the interests of the pupils that there should be the closest possible co-operation between sending and receiving schools, and it is the ultimate responsibility of the education authority to see that the machinery for this co-operation exists. There should, for example, be direct consultations between the headmasters concerned, subject to the general oversight of the director of education, for such purposes as determining which pupils appear

by the end of the second year likely to profit from a course leading directly to the Higher grade examination in some or all of their subjects and arranging appropriate transfers at this stage after consultation with the parents. In some cases, it may be necessary for the education authority to make special arrangements for the headmasters to meet, particularly where some of the sending schools are in a different education area from the receiving schools.

sensols we'n it amerine constitution are from the receiving school. If relevant information gained about them in the sending school should immediately be made available to the headmaster of the receiving school. The pupils can then peracel in the same way as those already in intendance at the central school of the control of the receiving school in the same way as those already in the same translated to the courses as a whole and the cyllahuses in individual subjects of sending and the correcting school should be closely integrated so that pupils transferring from one school to the other should not be at may prest disadvantage. In connection one school to the other should not be at may prest disadvantage. In connection the control of the school in the same state of the school in the same school in the s

113. A special and separate problem may occur in a few districts. Certain schools which at present have a small fith-year class may find that the requirements of some of their pupils are satisfied by the Ordinary grade examinations and that the number remaining to the fifth year is soo small to allow of efficient organization. In such cases the education authority must consider whether organization the organization of the control of t

#### JUNIOR SECONDARY SCHOOLS

114. It is also necessary to consider how the new arrangements may affect junior secondary schools, that is, those secondary schools which at present provide no Certificate courses. As we have seen (paragraph 4), the percentage of pupils allocated to Certificate courses varies greatly from area to area. It follows that in certain areas there will be in the junior secondary schools some pupils who in other areas would be taking Certificate courses. It is therefore prohable that some education authorities will find it advisable to institute courses in a number of these schools for pupils aiming at the Ordinary grade examinations. As in the case of the schools discussed in the preceding paragraphs. either these courses will be of two years' duration, potential candidates being thereafter transferred to a central school, or, where the education authority, after careful consideration, deems it advisable and can provide qualified staff and adequate accommodation and equipment, four-year courses leading to presentation on the Ordinary grade may he introduced. (Where numbers are small, we recommend the first alternative.) In areas in which a relatively large percentage of pupils in any age-group (30 per cent, or over) is allocated by the Promotion Board to Certificate courses, the introduction of Certificate courses into schools which do not at present offer any should seldom he necessary: the occasional pupil who shows promise of heing ahle to undertake Certificate work should rather he transferred as soon as possible to a senior secondary

school.

115. Since the examination on the Ordinary grade is expressly designed for approximately the ablest thirty per cent. of the pupils in any age-group (paragraph 165), it is not a suitable target for the great majority of junior secondary pupils. Only pupils who are clearly capable of benefiting from a Certificate course should therefore he allowed to embark on it, and promally they should be course should therefore he allowed to embark on it, and promally they should

be taught in a separate class. The fact that certain pupils might secure a pix on the Ordinary grade in an isolated subject or two does not mean that they should be encouraged to flollow a Certificate course in all their subjects. Indeed, by following a course which, alken as a whole, is clariby beyond their espacity, such pix of the course which, while a subject is clariby the course which will encourage pupils to may on a stool, but the objective set should be one within the reach of the pupils coverned, and for the great majority it should not be the acquisition of the Certificate. Many jumine secondary schools have made great progress in developing appropriate courses for their pupils and it must be clearly understood that the interfers with this development.

### OTHER IMPLICATIONS OF PROPOSALS

### THE SIXTH YEAR

116. We discuss the sixth year separately, partly because of its very great importance and partly because the question of what should be done in this year may appear to go beyond our remit. In our view, however, the sixth year cannot be divoced from the courses which lead up to it and must consequently be included in our Report. As at present, the pupils who remain at school for a strong of the course of the course

117. Among the pupils in the first category will be those who have secured passes on the Ordinary grade in the fourth year and have continued the study of certain subjects for a further two years in the hope of taking some of these subjects on the Higher grand (paragraph 41). Others will try to increase the subjects on the Higher grand (paragraph 41). The subject is the subject in which they did not reach the necessary standard in the fifth year; some may also require additional passes on the Ordinary grade. All these pupils are in effect still following Certificate courses and form the sixth year will be essentially an extension of the fifth year; resembly it dowely in type and giving the to much the same problems of Organization.

118. The pupils in the second category will not be concerned to any great extent with the Certificate examinations, although some may wish to secure a pass in a subject in which they have taken a short course or to improve the range or quality of their Certificate passes in some other way. Under the new arrangements it is hosed that the number of such pupils will be substantially

increased (paragraph 45). It is these genuinely post-Certificate pupils who are ready to undertake full sixth-year courses.

119. We fired strongly that an increase in sixth-year work is essential if increases of these pupils of high scholarite ability are to be sufsegurand earlier increases of these pupils of high scholarite ability are to be sufsegurand summarized to those professions where stigh academic manifolds are required. Wherever a genuine sixth-year curriculum is at has lapsed, it schoold be restored; and it should be established, if at all practicable, in those schools which hitters have provided no post-Certificate courses of study. Unless the programme of work these pupils are offered in the sixth title incretive for from ten and the first firms in the filling the school of the programme of the property of the programme of the pupils are offered in the sixth title incentive for from ten and feel till use of their insule intelligence and causely.

Indeed, there is a strong body of opinion which considers that the abolition of the former "Group" Leaving Gertfielate has led to a general decline in standard in Scottals senior secondary schools, for the reason among other instandards in Scottals senior secondary schools, for the reason among other properties of the senior secondary schools, and the senior secondary schools which was senior senio

We are very conscious of the need to encourage the development of advanced courses in the sixth year and have considered the desirability of offering an incentive. Some of our members were disposed to recommend that an examination be set on an Advanced grade in the sixth year, as was advocated by the Advisory Council in their Report on Secondary Education (1). In the opinion of these members the Higher grade should also be retained (but as a sixth-year examination) for pupils who required a more general course. The majority of our Working Party, however, are not in favour either of postponing the second major examination until the sixth year or of introducing at the present time an examination on an Advanced grade. They prefer that the examination on the Higher grade should continue to be, as at present, essentially a fifth-year examination, and that an Advanced grade should be allowed to develop naturally from the system of Ordinary and Higher grade examinations, if the need for such a grade becomes strong enough. They feel that the advantages which might accrue from the introduction of an Advanced grade are, as yet, not clearly enough established. We suggest, therefore, that another committee might he set up at an appropriate time to consider further the whole question of examinations subsequent to the examination on the Ordinary grade.

121. The development of proper sixth-year study should not, however, he dependent on any external examination. Many schools have arranged for their post-Certificate pupils separate classes in individual subjects, in which gammler devatoraced instruction is given. Others, where there are too few pupils to make this practicable, have given their shiest pupils a sound course of directed study, much of it being carried out by the pupils working independently or in group (suragraphs 88, 96 et seqs.). As we have already indicated, we strongly advocate are every pupil with the necessary ability should be aftern the opportunity of

following a genuine sixth-year course of study.

122. The sixth-year carriculum should differ very considerably from that opervious years; it should certainly not he a mer reprintion of fifth-year work. By the time they have reached this stage, pupils will generally have a reasonably dear idea as to which subjects they littend to continue studying after they leave school, and it is natural that they should concentrate mainly, though not cottlevely, on these subjects. As a result, they may study fewer subjects, and at cottlevely, on these subjects. As a result, they may study fewer subjects, and it is not subject to the subjects of the subjects and the subjects are subjects. As the subject is repaid many through the in much greater depth than has hithern heen possible. The time spray time by the immediating and developing the study of a subject is repaid many time by the increased maturity, understanding, and judgment which the pupil acquires from it; his general outlook, far from heroning narrower as a result of this process of the subject of the subject is required to the subject in the subject is result of the subject in the subject is result of this present outlook, far from heroning narrower as a result of this part of the subject is required a better foundation on which to have line future studies.

- 123. We have mentioned earlier in this Report the need to make deliberate and adequate provision of school courses which lead on naturally to the various forms of further education (paragraphs 5, 63). In some areas valuable links have already been established between schools and local centres of further education, on the control of th
- 124. The onus of securing this integration of secondary and further education cannot rest on any one body or group of people. We therefore indicate certain steps which we think might with advantage be taken and suggest whose responsibility it would be to take the initiative in each case.
- 125. One of the most important steps to be taken at the national level is consure that the possession of relevant passes at the Certificate examination is accepted as a passport to further education courses and that the point at which repull is allowed to caree these courses is at a level which is in keeping with that which he bas attained at school. In the case of universities, the present rarrangements have, on the from inversity peritinaring examinations and the requirements of the universities as to compulsory and optional subjects are well known in schools.
- 126. Elsewbere, while similar arrangements exist, the equating of passes in offen less advantageous to the pupils. We recognize that negotiations with the many interested bodies have already been carried out by the Sectitist Education Department with a view to securing adequate exemptions on the strength of Certificate passes, but the introduction of the new Ordiburs greated that the production of the near fairness and production of the near fairness are producted to the production of the near fairness and production of the production of the near fairness are producted to the production of the near fairness are producted to the production of the near fairness are producted to the production of the prod
- 127. We realize that such exemptions can be obtained only if the school syllabuses in the various subjects form an acceptable basis for further education courses. Schools are, however, preparing pupils for many different types of further education and they must provide syllabuses which are reasonably broad in content: it follows that their syllabuses cannot be directed exclusively towards any one branch of further education. When, however, the syllabuses leading to the examinations of the Scottish Education Department have been drawn up, the comments of the various bodies interested in further education should be studied with great care and the syllabuses should be modified to take account of any special recommendations put forward by them, wherever this can be done without distorting the general educational value of any syllabus. Thereafter the Department will doubtless ascertain what recognition can be given to passes at the Certificate examination. If the recognition accorded to either grade seems inadequate, the Department should institute further negotiations in the hope of discovering any obstacles that are standing in the way of adequate recognition. For certain subjects it may be necessary to bring together representatives of the various professional institutions, universities, and schools to consider whether a syllabus acceptable to all can be worked out,

and we recommend that the Scottish Education Department should consider

organizing such meetings, if they prove necessary.

128. Once a system of exemptions has been accepted, we hope that it will be possible for further education courses to be so arranged that there is no real gap between the work of the colleges and that of the schools. It is important that pupils who have successfully continued their education at school should not be at a disadvantage when they embark on further education courses; otherwise they may be discouraged at the very outset.

129. Examples of the difficulties that must be overcome are to be found in the linking of school courses with National Certificate courses (1). In the first place, the standard of the National Certificate courses has not always been appreciated. Pupils who are able to complete satisfactorily a four-year Certificate course at school should have a reasonable prospect of success in a National Certificate course, but any who have real difficulty in reaching the standard of the Ordinary grade examinations or who fail to do so would he well advised to attend less theoretical courses. In order to avoid future misunderstandings, further education centres should seek to establish closer relations both with the schools from which their students come and with the Youth Employment Service in their area. They should also consider what they can do to ensure that the best possible educational guidance about further education courses is available to young people and, in particular, should give as clear an indication as they can of the level of ability essential to success in the various courses. In the second place, we have been led to the conclusion that the standards of entry appropriate to the various stages of further education courses leading to National Certificates should be more clearly defined and that progression to these courses from school courses should be established on a broader and more systematic basis. The introduction of the Ordinary grade affords an excellent opportunity for this to be done. Responsibility in these matters is shared by the Scottish Education Department and the professional institutions represented on the Joint Committees which operate the schemes in Scotland, and we suggest that it will be necessary for the Joint Committees to review their requirements in terms of the new Certificate. In particular, every effort should be made to eradicate certain anomalies in the exemptions hitherto granted by virtue of Certificate passes. At present, except in the case of mathematics, only passes on the Higher grade are considered as giving exemption from the corresponding subject at the S1 stage of any National Certificate course. Since the Ordinary level of the General Certificate of Education is accepted in a number of schemes as exempting on a subject for subject basis from the SI stage, we see no reason why the possession of appropriate passes on the Ordinary grade of the Scottish Certificate examination should not secure similar exemption. If then appropriate Ordinary grade passes are accepted as exempting from the S1 stage, increased recognition should also be given to passes on the Higher grade, for example by granting appropriate exemptions at the \$2 stage. Unless this is done, pupils who have the ability to take passes on the Higher grade but who intend to enter posts for which National Certificate courses normally provide the appropriate form of further education will have no incentive to remain at school after they have obtained the necessary Ordinary grade passes, although the desirability of their doing so should be widely accepted. We strongly recommend that the Scottish Education Department should consult the professional institutions through the medium of the Joint Committees with a view to ensuring that appropriate passes on the Ordinary grade of the Certificate examination should be accepted as exempting from the S1 stage of National Certificate courses, and similarly that passes on the Higher grade should secure exemptions from the S2 stage.

<sup>(</sup>i) We exclude from the references in this paragraph the National Certificate in Commerce, and deal with the position with regard to commerce in paragraph 150.

- 130. In the case of the corresponding courses for those engaged in commerce (including the retail distributive trades), the difficulties experienced are somewhat different, although they lead us to very similar conclusions. The number of students embarking on these courses, as distinct from those studying single subjects, is disappointing, especially as there is a considerable demand for able recruits to commerce. Hitherto the school courses which have been provided for those intending to enter the various fields of commerce have generally been for non-Certificate course pupils and there is much need for a development of appropriate Certificate courses, catering for both boys and girls. courses should lead on to the courses in further education of a National Certificate standard and ultimately to posts of some responsibility in commerce and industry. We consider, for example, that schools might interest some of their pupils in the recently established Commercial Apprenticeship Scheme. regular and formal progress from secondary schools to further education centres is to be established, there must be a well-defined system of exemption by virtue of both Ordinary and Higher grade passes and all relevant information must be readily available in schools. To sum up, we recommend that there should be established closer liaison between schools and further education centres, and that the Scottish Education Department along with the National Committee for Commercial Certificates and the professional bodies concerned should give early and earnest consideration to the question of ensuring appropriate exemptions from further education courses in respect of Ordinary and Higher grade passes.
- 131. In our opinion it is unfortunate, and indeed short-sighted, that there should be such general unwillingoses to admit to craft apprenticeablps in industry purpls who have remained at school after the ago is streen. We oblive not only that both sides of industry should in their own interests welcome between the contract of the co
- 132. Education authorities have an important role to play in promoting the linkage of secondary and further education, not only within their own areas, but regionally. They should, for instance, be prepared to arrange meetings, if these have not already taken place, between the headmasters of their secondary schools and the representatives of local further education centres, businesses, and industries, so that each may learn something of the others' problems and may co-operate in discussing the difficulties which are experienced when pupils transfer from school to further education. In this connection, we should like to commend the initiative shown by the Federatic n of British Industries in establishing a joint standing committee consisting of representatives of the Federation itself, the Association of Directors of Education, and the Association of Headmasters of Senior Secondary Schools, to discuss problems relating to both industry and schools. The education authorities should also do their best to ensure, whether directly or in co-operation with the Ministry of Labour, that the work of the Youth Employment Service is fully developed in their areas and that contacts with schools are harmonious and mutually helpful. It is, moreover, the responsibility of the education authorities to provide further education classes, not only in subjects with a vocational bias but also in other subjects, in order to enable young people to continue and develop non-vocational interests acquired at school or elsewhere.

133. The headmaster of a secondary school can usually do more than anyone else to encourage pupils to continue their studies on leaving school and to guide them towards the form of further education for which they are most suited. It is, for example, important that a pupil should embark on a course of further education which he has every prospect of completing satis-factorily; if the pupil attempts a course clearly beyond his capabilities, he is bound to fall by the wayside, whereas he might have succeeded in acquiring a less ambitious but still valuable qualification. As in the past, the headmaster will often find it advisable to arrange to see the parents of some of his punils in order to consult their wishes and to bring to their notice the various careers open to their children. It is especially necessary that he should do so when, as frequently happens at the present time, parents, dazzled by the apparent advantages to their children of obtaining immediately a well-paid job for which no training is required, fail to realize how short-sighted their policy may be.

134. If the headmaster is to be in a position to advise his pupils and to arrange their courses satisfactorily, not only towards the end of their course but at every stage where a choice of subjects has to be made, he must have up-to-date information about the entrance requirements of the major forms of further education which his pupils are likely to undertake and should know something of the courses themselves, particularly those related to local industries. The amount of information which must be assembled and kept up to date is very considerable, and the headmaster will require to draw not only on his own knowledge and experience, but also on the resources provided by the Youth Employment Service or the Careers Advisory Service. Personal contacts are invaluable and the headmaster should be prepared to take part in, or arrange for, direct consultations with representatives of interested bodies. This does not imply that the vocational requirements of such bodies should dictate the organization of any of the pupils' courses, but a headmaster will naturally wish to make certain that each pupil's course does in fact contain the subjects which are likely to be most immediately necessary for his career.

135. In some schools a careers master has been appointed, whose special task it is to assist the headmaster in these very onerous but very important duties by, for example, studying the relevant literature, collating the information available, and advising the headmaster, parents, and pupils about the opportunities and requirements of possible careers. A careers master normally works in close collaboration with the youth employment officer or the careers advisory officer (paragraph 137). Especially where the number of senior pupils in a school is large, the appointment of a teacher as careers master has much to recommend it. In other schools a careers committee has been formed; in this case each member may deal with one or two specific professions or trades, so that together the members have all the information likely to be necessary and

can advise the headmaster on these matters.

136. Teachers, especially heads of departments, should also know something of further education requirements, particularly when these affect their own subjects. They can then, wherever applicable, relate the syllabus in their subject to the pupils' future requirements in so far as these are known. It is not a question of giving specific vocational training, but rather of applying the information they thus gain to the choice of examples used to illustrate the facts of general application included in the syllabuses. Secondary school teachers should find it useful and stimulating to meet teachers of their own subject from both local technical colleges and central institutions; a frank interchange of views can be very enlightening to both groups and may do much to help bridge the gap which too often exists between school and further

education.

137. The youth employment officer or the careers advisory officer, whichever is responsible for this work in the area concerned, can greatly assist the headmaster and his staff by bringing to their notice some of the less well known forms of further education. They can frequently suggest some form of training which might suit a particular pupil and advise the headmaster on the entrance qualifications required. Close co-operation with the headmasters and teachers is essential if the work of these officers is to be fully effective.

138. The field for further education is wide and it is likely to be wider still in the funre. If its potentialities are to be realized, the closest co-operation of all involved is essential.

## STAFFING

139. It is not possible to forecast with any degree of accuracy the other to which the new arrangements will require a stuff, but certain indition of the control of the fourth part will be very considerably increased. While some schools will be able to aborb these additional pupils increased. While some schools will be able to aborb these additional pupils increased. While some schools will be able to aborb these additional pupils increased. While some schools will be able to aborb these additional pupils increased. While some schools will be able to aborb these and will, pupils leave at the end of the fourth year, the numbers in the fifth year may pupils leave at the end of the fourth year, the numbers in the fifth year may be pupils leave at the end of the fourth year, the numbers in the fifth year may will soo after process; it is, however, unlikely that they will be so far reduced as to alter the number of teachers required. Moreover, the new extanination will come into force at a time when the increased brinches do the post-ear

140. The appointment of additional staff may be necessary in those schools which develop four-year Certificate courses. On the other hand, the transfer of all Certificate course pupils from some of the present sending schools may result in a reduction of staff and a more economic use of specialist teachers.

141. We have recommended that the organization of courses should be lost rigid than has in general been customery hitherto, the flaxibility which is our upguilty required with a sun thanking the sun of the

a woter range of stripects.

14.2. Again, the decay must be formed to the separate branches of composite and 14.2. Again, the mean mean the formation of new sections of a class, with the consequent need for additional tanchers to take them. As it well knows, there is already a very considerable shortage of teachers of science and the development of, for example, biology as a separate subject will depend on there being an adequate supply of teachers. Similarly, an extension of the number of school courses leading ultimately to the National Certificates will increase the demand for teachers of sub-subjects as physics, chemistry, and

143. In general, there seems to be no doubt that the alterations in course and examinations which we recommend will aggravate the present staffing difficulties. We therefore urge that immediate steps be taken to improve the difficulties. We therefore urge that immediate steps be taken to improve the desirable in itself and necessary to provide suitable courses for all pupils, is in large measure dependent on the availability of an adequate supply of qualified teachers and since the implementation of our recommendations will consider the properties of the proper

144. The new organization, as well as affecting the number of teachers required, may have an influence on the type of qualification which it is desirable that teachers should possess. Teachers with full specialist qualifications will still be urgently required, but in addition there will be a growing demand for teachers with qualifications which are as wide as possible. In smaller schools and departments the increase in numbers may not be so great as to justify the appointment of additional staff, but the type of organization we recommend will make it advisable to look for teachers qualified to teach as wide a range of subjects as possible, so that a variety of courses can be offered even although specialist teachers cannot be appointed for each individual subject. In any school the availability of teachers able to take two or three subjects makes setting easier to arrange, since the number of teachers available for each subject determines the maximum number of sets that can be arranged in that subject (paragraph 85). In our view it is essential that students during their training year should have the opportunity of taking courses in a subject or subjects other than those for which they hold full academic qualifications (or the equivalent). The additional subject might be one cognate with those they already possess (e.g. geography for a graduate in English and history), so that they could teach satisfactorily a group of related subjects. Alternatively, it might be chosen because of the personal gifts or interests of the student; for instance, it would be very useful if a student with a natural gift for music or a special interest in history had some training in how to present the subject to pupils. We would therefore impress the urgency of reconsidering the Regulations for the Training of Teachers with a view to enabling prospective teachers to obtain a wider range of qualifications without loss of their basic specialist qualification.

145. The repeated references in this Report to the part to be played by headmasters make us acutely aware that the adoption of our many recommendations will add very considerably to the demands made of them. The scope of their present duties will be widened (e.g. paragraphs 15, 18, 134), their responsibility intensified (paragraphs 11, 44, 47), and the number of calls on their time and attention increased (paragraphs 11, 21, 80 et seq.). It may be asserted that not all of the duties implied need be undertaken by the headmaster personally and indeed that in many schools some of these duties ought to be delegated. This assertion is valid only if the headmaster has adequate assistance: and the assistance we have in mind is not clerical assistance-the necessity for which has been repeatedly emphasized-but the particularly valuable assistance which can be given to a headmaster by such members of staff as a deputy headmaster, a woman adviser, and a careers master. Appointments to such posts of special responsibility have already been made in many schools. We are convinced that the additions to the range of a headmaster's responsibilities as a result of our proposals will make it desirable for education authorities which have not hitherto made appointments of this nature to review their policy.

## ACCOMMODATION

146. A considerable number of our proposals for the organization of senior secondary education will to a great extent depend for their success on the availability of suitable accommodation, that is, there must be adequate accommodation and it must be of an appropriate type. A careful assessment of what is likely to be required is therefore essential.

147. It seems to us clear that demands on accommodation will be heavyly applicable to accommodation. If more classes are formed, whether because of an increase in the number of pupils remaining to complete the fourth year or hecause of greater flexibility and choice in the courses offered, more accommedation.

modation as well as more staff will be necessary. The extent of the increase amont as yet be estimated with any accuracy for the contrary as a whole and can accurate the contrary as a whole and can be considered to the contrary as a whole and can be considered to the contrary as a whole and can be considered to the contrary as a contrar

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armagements come into force.

19. If the numbers of both pupils and staff increase, more ancillary accommodation must be provided. In particular, additional lockroom and force of the pupils are started to the staff of the provided of the purious staff of the provided of the staff of the provided of the staff of the provide dequate staff toom accommodation and we are confident that education authorities will continue to have regard to this need. The task of teachers in the natt few years will be a very heavy one, and satisfactors, and activate of the provided of the staff of the provided of the staff of the provided of the provided of the staff of

150. It is now recognized that all accordary schools ought to have a hall arge enough to allow the pupils to be assembled. Nevertheless, many of the lodder schools are still without an adequate assembly hall. It should be borne to be a search of the school are still without an adequate assembly hall. It should be borne conflicted examinations and that an assembly hall can frequently serve as an examination hall. Thus, to provide adequate accommodation for assembly may be one way of surmounting, at least in part, the difficulties of certain schools which at present lack facilities for examining at the same which are the schools are successful to the school of the sch

151. Not only will additional accommodation the necessary, but there may well be changes in the type of accommodation required. The recognition of branches of certain subjects as separate units (paragraph 49) may affect may be come accessary because its sense may in future be given to woodwork and metalwork and more to applied mechanics and technical drawing, since the latter are more closely aligned with National Certificate courses. Again, easien more pupils to tien towards science as one of their man subjects with the separation of the branches of science and the expected increases in the number of options in the fifth and sixth years, it is probable that more of the best pupils will add in the later years does not consider the science of the science and the other pupils will add in the later years one or two branches of science and the science of the scienc

found the full science course rather heavy will now take at least one branch, instead of discontinuing the subject as they might formerly have done. The strong probability is, therefore, that there will be in most schools an increased demand for science laboratories, some of which will probably be required for specific branches in which there has been a marked development.

152. If pupils are to undertake independent study (paragraphs 96 to 161). there should be available rooms in which they can carry out this study without distraction. Hitherto much of this work has had to be done at the back of a classroom in which a class is being taught. However admirable the results have been in many cases, such conditions make it far from easy for the pupils to concentrate and do good work. Further, we expect that in future many more pupils will undertake independent study and it will be impracticable, as well as educationally inadvisable, to accommodate the increased numbers of pupils at the back of rooms in which classes are being taught-possibly by more active methods than formerly (paragraph 39). There should therefore be, in addition to the normal classrooms, a certain number of small reading-rooms or studyrooms. The pupils should also have access to a good school library so that they can readily consult books of reference available there. We understand that it is already the accepted practice to provide a library in all new secondary schools and to include one in the modernization of any secondary school which so far has lacked one.

15.3. Again, if setting is to be encouraged (paragraph 81), it will be desirable to have for each subject as many rooms as there are sets in the largest group of classes time-tabled simultaneously for that subject. The provision of a group of classrooms in close proximity to one another, to be used by teachers of the same subject or subjects, can be of great assistance in the successful development of the setting system, although it may not be an essential prerequisite.

154. The more active methods which we advocate, particularly for pupils following a course leading to the Ordinary grade examinations (paragraph 39), make greater demands on space in a classroom than does purely verbal instruction. Space is needed to allow of free movement about the classroom by teacher and pupils; the use of visual sids requires room for equipment and fee tools vertical and horizontal display; modern more most feet quipment and the oth vertical and horizontal display; modern more notifier that the minimum star of clear com stipulated in Appendix B of the School Building Code should be substantially increased.

155. We also believe that it is educationally very desirable that each teacher of a subject or subjects for which ordinary classrooms are used should have a room of his own. It is important that the room in which, for example, mathematics is taught should provide an appropriate mathematical atmosphere; this is in practice attained only if the teacher has a room in which he takes a special interest, in which he keeps reference books for frequent consultation, and in which he builds up a suitable supply of visual aids. If teachers do not have rooms of their own, much time may be lost while they collect and transport material from room to room, and pupils may be unable to use certain equipment or reference books, since to do so would involve interrupting the work of another class. Further, it should not be assumed that, if a teacher has, say, five non-teaching periods, none of these need to be spent in his classroom. A teacher may require, before the start of certain lessons, to prepare equipment, select material, write or draw on the blackboard; and again valuable time is wasted if this has to be done while the pupils sit and wait. The efficiency of a teacher is undoubtedly enhanced when he has a classroom of his own. In the case of practical subjects, the specialized use of the various practical rooms may make such an arrangement less advantageous, but the number of rooms provided should similarly correspond to the number of teachers required. Throughout this Report we have advocated greater flexibility of time-tabling. This can be achieved only if the headmaster has sufficient classrooms to allow of a little "allow-room in his organization," the property of the

156. Not all classes in secondary schools are of the same size, and it is at present not unsurable to provide a number of smaller classrooms to seat perhaps twenty pupils. In practice it is doubtful whether this provision is justified, difficult, if requartly a number of mailler classrooms are required simultaneously at one priod, when classes are divided into small sections for alternative subjects, and not at all at the next period. Moreover, allocation of a classroom room provided (part from study-cooms or reading-rooms) should be able to seat any class in the secondary department.

# Part II: The Certificate Examination

157. Our Report has so far been concerned with the reorganization of Certificate courses and its implications. We now pass to the second half of our remit and discuss the Certificate examinations themselves and the general conditions which should govern them if the recommendations we have put forward are to be implemented. Detailed proposals regarding changes in certain individual subjects have already been made in paragraphs 49 to 52.

### HIGHER GRADE

138. The Higher grade examinations have, in the main, offered a reasonable and useful target for senior secondary pupils of high ability and they should, therefore, to a considerable extent remain unchanged. They should continue secondary obtained to the secondary obtained to the secondary obtained. The warming should perhaps be repeated here that pupils aiming at taking the Higher grade examinations in any subjects in the fifth year must take them in their stride wyletical needal personations and pupils of the secondary obtained to the secondary obtained

159. We believe, however, that some of the changes to be made in the Ordinary grade examinations will necessitate reconsideration of the Higher grade examinations also. We have already suggested that this may be advisable in the case of some of the present composite subjects (paragraph 49). We consider that it is highly destrable that any consequential changes in the Higher which the examination on the Ordinary grade is introduced.

## ORDINARY GRADE

160. The major change in the examination system will, of course, be the introduction of examinations specifically designed for fourth-year pupils. We have already outlined the educational considerations which lay behind the

decision to make this change. It is, however, relevant at this point to mention briefly why it was thought advisable to choose the fourth year of senior second dary education as the year in which the Ordinary grade examination should be held, since this choice necessarily affects the standard and type of papers to be ser

he set. 161. We have expressed our concern at the number of pupils who leave school prematurely (paragraph 2), and we realize that pupils who, on reaching the statutory school leaving age, are very doubtful about their success in the Scottish Leaving Certificate Examination as at present organized may well hesitate to spend two further years at school in the hope of gaining a certificate. We believe that the prospect of gaining a certificate of accepted national standing in one additional year will induce many of these pupils to remain at school and complete a four-year course. Again, many pupils wish to embark on apprenticeships or similar forms of further training which are usually begun at the age of sixteen, i.e., when most of the pupils are finishing a fourth year of secondary education. Pupils will therefore now be able to complete full four-year courses and take the Ordinary grade examinations without forfeiting their chance of entering upon these apprenticeships or similar forms of training. Indeed, we hope that they will be able to gain exemptions from at least parts of the courses of further education and training by virtue of Ordinary grade passes (paragraphs 127, 129, 130). Furthermore, we are confident that a certificate showing passes on the Ordinary grade will be welcomed by many employers as an indication of whether a prospective employee has the particular qualifications necessary for a specific post; this may also prove an inducement for pupils to complete at least a four-year Certificate course.

162. It is recognized that at present Scottish pugish are frequently at a dissovatage compared with the English contemporaries since the first major examination they are able to take is normally taken at the age of seventeen. On the contemporaries of the contem

163. For those candidates who do not intend to leave school after the fourth year, the examination on the Ordinary grade is so timed as to make it possible to complete in the fourth year a course in a subject which they do not must not continue and so to concentrate in the following year on their other subjects. Pupils who are encouraged by success in the Ordinary grade examination and the subjects. Pupils who are encouraged by success in the Ordinary grade examination are subjects. The pupils who are encouraged by success in the Ordinary grade examination of the Higher grade by this saith were of their course (mayarand 4).

grade by the sixth year of their course (paragraph 41,

## FORM AND CONTENT OF THE EXAMINATIONS

164. Earlier in this Report we discussed the type of pupil for whom the courses leading to the Ordinary grade examinations are primarily designed and suggested what should be the essential features of the syllabuses for these courses (paragraphs 22 to 36). The considerations which led to our conclusions about the form and content of the examinations. We pointed out that the requirements of pupils in this tactgory were by no means the same as those of pupils aiming at the Higher grade examinations (paragraph 33). Consequently, the Ordinary grade examinations for the merely simplified versions of those set on the Higher grade, but must be based on the type of syllabus these pupils of the property of the prop

examination questions should follow suit. Again, while the Ordinary grade examinations should by no means be of an elementary nature, they should take account, especially as regards the form of questions set and the type of answers required, of the relative immaturity of the candidates.

#### STANDARD OF THE EXAMINATIONS

165. We understand that the Scottish Education Department intend to publish for the Ordinary grade examinations specimen papers in individual subjects. For their guidance we offered some general indication of the standard which should be aimed at, and we repeat here a broad statement of our views. We consider that the standard should be such that a pupil who is at the lower end of the top 30 per cent. of any age-group should, with satisfactory teaching and adequate effort on his part, have a reasonable prospect of securing passes on the Ordinary grade in at least three subjects in the fourth year. This does not imply that such a pupil's course should consist of only these three subjects, nor indeed that he should be presented in only three. It must, moreover, be remembered that this refers to the least able of the candidates for whom the examination can be regarded as a suitable target and that most pupils will be capable of gaining a larger number of passes.

166. A comparison with the existing Lower grade examinations may also be useful. (In making this comparison we are assuming that candidates for the Ordinary grade will have followed courses of a type suitable for them in content, method of presentation, and pace, and that in consequence more candidates will be able to complete the course successfully.) We consider that the level of attainment required for a pass in any subject on the Ordinary grade should be such that a candidate who would at present just pass that subject in the fifth year on the Lower grade should be able to pass in the fourth year with a reasonable margin. It follows that a considerable number of those pupils who hitherto have left school at the end of the third year because they saw little prospect of obtaining a certificate with passes on the Lower grade should now be expected to remain at school as potential candidates for the Ordinary grade examinations.

167. In order to safeguard the Scottish pass as the equivalent of an English one (paragraph 162), the standard of the Ordinary grade should approximate to and should be not lower than that of the Ordinary level of the General Certificate of Education. Comparison of standards must, of course, involve comparison of syllabuses, question-papers, standards of marking, levels of pass-marks, and percentages of passes, and the difficulty of ensuring approximate equality of standard is recognized. To obtain equality of standard there is, however, no need to have uniformity of syllabuses for Scottish and English courses and the emphasis laid on the various elements of the syllabuses may well differ in the two countries.

## PROPOSED CONDITIONS FOR THE AWARD OF THE CERTIFICATE

### ELIGIBILITY

168. In order to be eligible to take the Ordinary grade examinations, candidates should be in class SIV or any subsequent year of their secondary course, or they should have reached what is accepted as an equivalent stage in their education. Similarly, the Higher grade examinations should be open to candidates in class SV or any subsequent year of their secondary course or its equivalent. As we have already implied in paragraphs 108 and 114, we recommend that presentation on the Ordinary grade be permitted from any secondary school which is in a position to provide a four-year Certificate course. We further propose that the following external candidates should be admitted to the examination on both the Ordinary and the Higher grade:-(a) students following a course of instruction at a further education centre as defined in the Further Education Code, (b) any other students put forward by an education authority or other school managers and approved by the Scottish Education Department as having followed a reasonable course of study. We recommend the inclusion of the last-named type of student in the interest of those who live in remote areas and who would otherwise be excluded from the examination.

169. Candidates from further education centres should be eligible for presentation on the Ordinary grade provided that

(i) they have completed three years' full-time secondary education at school

followed, at a further education centre, by either one year's full-time education or two years' part-time education;

(ii) they attain at least the age of 17 in the calendar year in which they are presented. Similarly, candidates from further education centres should be eligible

for presentation on the Higher grade provided that

(i) they have completed three years' full-time secondary education at school followed, at a further education centre, by (a) two years' full-time education or (b) one year's full-time and two

years' part-time education or (c) three years' part-time education:

(ii) they have completed four years' full-time secondary education at school followed, at a further education centre, by either one year's full-time education or two years' part-time education; OT

(iii) they attain at least the age of 18 in the calendar year in which they are presented.

Candidates sponsored by education authorities or other school managers but not attending a further education centre should be eligible for presentation on the Ordinary grade provided they attain at least the age of 17 in the calendar year in which they are presented. Similarly, they should be eligible for presentation on the Higher grade provided they attain at least the age of 18 in the

calendar year in which they are presented

170. We make the above recommendations in the hope that they may forge a closer link between secondary and further education. We have stressed the importance of securing recognition of appropriate Certificate passes as giving entrance to courses leading to various trades and professions or as exempting from certain parts of such courses (paragraphs 125, 127, 129, 130). The more widely such passes are recognized, the more important it becomes that those who have left school without the necessary qualifications should be able to acquire them at a later stage by taking the Certificate examinations. Indeed, many who at present find themselves in this position are taking the General Certificate of Education examinations, and we feel that it would be fairer to them to allow them to take the Scottish Certificate examinations if they so desire, since their previous education would lead more naturally to it. We do not, however, recommend unrestricted presentation at the Certificate examinations; individual candidates should be accepted only if sponsored by an education authority or other school managers.

# OTHER CONDITIONS OF PRESENTATION

171. If the recommendation made in paragraph 47 is adopted and no subjects are by regulation made compulsory at any stage for Certificate courses, it follows that there should be no compulsory presentation in any particular subject or subjects. Accordingly we recommend that candidates should be eligible for presentation on either grade in any of the examination subjects and that the certificates issued should credit them with such passes as they have obtained. As at present, a certificate should be issued to candidates who obtain even a single pass on either grade. Any passes gained on the Ordinary grade in the fourth year should, under the new system, be retained whether or not candidates return to school. We consider that it should not be permissible to present a candidate on both grades in the same subject in any one academic year, even if the timing of the examinations should make this possible.

172. We are of the opinion that candidates should continue at school until the beginning of the summer vacation immediately following the examination which they bave taken. We recommend that the system of exemptions at present

in operation be continued.

## TITLE OF CERTIFICATE 173. If, as we bave just proposed, a pupil may return to school and still

retain the certificate be has gained, the present title of the certificate-Scottish Leaving Certificate-will no longer be appropriate. We therefore recommend that, as soon as the new regulations come into force, the name of the Certificate should be changed. In our opinion, the Scottish Certificate of Education would be a suitable title.

# ESTIMATES

174. We have examined the question of teachers' estimates and the form these should take. We recommend that candidates for the Ordinary grade examinations should for each subject (a) be arranged in order of merit and (b) be marked either "P" or "C." The letter "P" would signify that, in the teacher's opinion, the candidate would by the time of the examination attain a standard equivalent to a mark of 55 per cent, or over and that the teacher considered it would be an injustice if this candidate were to fail in the subject in question. Candidates marked "P" should receive no special consideration by the examiners unless they fail, when the examiners should specially investigate the case: in these circumstances, the responsible authorities should be prepared to provide evidence in support of the estimate. In the case of candidates marked the results should as a rule be determined solely by their performance at the examination. In schools where several teachers are concerned in presenting candidates for the same subject, a separate order of merit should be given for each section taught as a unit.

175. For the Higher grade examination in each subject we recommend (a) that candidates should be arranged in order of merit (as explained above). and (b) that each candidate should have entered against his name one of the numbers "1," "2," "3," or the letter "C." The numbers "1," "2," or "3" would indicate, respectively, that, in the teacher's opinion, the candidate's attainment by the time of the examination would be such as to merit

(1) a mark of 65 per cent. or more, (2) a mark of 58 per cent. to 64 per cent., (3) a mark of 53 per cent. to 57 per cent.

As at present, candidates marked (1), (2), or (3) who fail in the examination should receive special consideration and in such cases also the responsible authorities should be prepared to provide, at the request of the Department, assistanctory evidence in support of the estimates. The letter "C" should be used for all other presentations; in these cases the result of the examination would in normal circumstances be final. If, however, it proves in practice that the present of the presentation o

ORDINARY GRADE PASS ON HIGHER GRADE PRESENTATION

176. We recommend that the present practice whereby a candidate who fails on the Higher grade is considered for the award of a pass on the Lower grade should be continued for the Ordinary grade examinations.

# ILLNESS OF CANDIDATES; ADVERSE CIRCUMSTANCES

177. Where a candidate marked as "p" on the Ordinary grade or as "j" ""," "," o" ")" on the Higher grade has been prevented by illness or other sufficient cause from attending the whole or any part of the examination, we candidates marked "C," we suggest that the Department should determine from the school's order of merit whether in fact the candidates hould be given peculi condictarion. A similar arrangement should be prevent order of merit in which he appears may have been affected by adverse circumstances.

RIGHT OF APPEAL

178. The right of responsible authorities to appeal on behalf of individual candidates should, of course, be retained under the same conditions as operate at present.

# DATE OF EXAMINATIONS

of March:

- 179. We consider that it is educationally desirable that both the Ordinary grade and the Higher grade examinations should be held as late in the session as is practicable, i.e. in the latter half of May and the beginning of June. Two the properties of the session the results of an examination held in May and June, and many headmasters have indicated that this would handicap potential entrants to universities and other educational establishmens and would make it difficult to give careers guidance and our arrange majority of schools could a scommondate candidates for both grades simultaneously, a substantial number of schools would find it almost unpossible to do so. The first of these difficulties geometre to less serious in the case of the
- Ordinary grade examinations. We therefore recommend—

  (1) that the Ordinary grade examinations be held in the month of May;
  (2) that, for at least the first two or three years of the new arrangement,
  the Higher grade examinations should continue to be held in the month
  - (3) that the means of surmounting the difficulties with regard to accommodation and the issue of results be investigated and all necessary steps taken to ensure that, as soon as possible, it should become practicable to hold the examinations on both grades in the month of May.

#### SUMMARY OF THE REPORT

For ease of reference we recapitulate below the main points in this Recommendations and other matters to which we attach especial importance are printed in italics.

# PART I: ORGANIZATION OF CERTIFICATE COURSES.

## INTRODUCTION

We outline some of the educational reasons for re-organizing 1-8: Certificate courses.

## SELECTION OF PUPILS

# Promotion Procedures

- Q٠ Some system of selection for Certificate courses is essential. 10: The present classification is over-rigid and places too much emphasis
- on the literary side. Promotion procedures assess ability and attainment; this is important for the selection of those pupils who should take Certificate courses. Other factors are of value in determining which types of course the pupils should follow. We consider that there should be the closest possible collaboration and consultation between the headmaster and teachers of the sending primary schools and those of the receiving
  - secondary school. We emphasize the importance of co-operation with parents. We recommend that promotion boards should confine their decision to the selection of those pupils who show reasonable promise of profiting from a senior secondary education, and that further classification should be the responsibility of the receiving headmaster.

## Allocation to classes

- 12: The headmaster should have at his disposal all the information available about incoming pupils and should draw on it when deciding the allocation of pupils to classes. 13:
  - The headmaster should have discretion to re-allocate pupils at any later stage.

## FIRST YEAR OF CERTIFICATE COURSES

- 14: We stress the importance of the first year. Three aspects deserve special attention: it should be made possible for the pupil to adapt himself with growing confidence to the secondary school;

  - (ii) a firm foundation should be laid for future work; (iii) a more reliable assessment of each punil's capabilities should result.

# (i) Adaptation to the secondary school

15: The pupil must be assisted to adapt himself to his new surroundings and to having a number of different teachers. We are of the opinion that there ought to be one teacher who has a

special responsibility for each class and we suggest what his duties We recommend that headmasters should be given in confidence any available information about the health of their pupils and should have the right to pass it on, where appropriate, to their class masters.

## (ii) Laying a firm foundation

16: We are strongly of the opinion that it is educationally sound to start with a limited curriculum and to add to it only when the pupils prove they are capable of carrying a heavier load. (A minority of us

consider that the courses at present provided from the outset for the

very ablest pupils need not be reduced.) We suggest two ways of lightening first-year courses: (a) by restricting syllabuses, (b) by restricting the number of subjects in a course. We recommend that headmasters should seriously consider the advisa-

bility of applying both methods. 18-(a) Restricting syllabuses:

The content of each subject must be kept within reasonable limits. It is of the first importance to enable the pupils to consolidate their work thoroughly in each subject.

19:

(b) Restricting the number of subjects: We discuss the selection of subjects to be included in courses. Pupils with time available may, with advantage, be given periods of 20: supervised study or preparation.

## (iii) Assessment of pupils' capabilities

21, 22: The headmaster should have the assistance of subject teachers and class masters in his review of the pupils' work and in his assessment of their capabilities. He should decide whether any adjustment of the pupils' courses is necessary.

## DIFFERENTIATION OF COURSES AND SYLLABUSES

We strongly advocate that differentiation of syllabuses should take place as soon as the need for it becomes annarent.

24: We believe that for each pupil a decision as to which subjects he will study with a view to presentation on the Ordinary grade in the fourth year and which subjects, if any, he will study with a view to presentation on the Higher grade in the fifth year cannot be postponed beyond the end of the second year without prejudicing the chances of success of the majority of the pupils concerned.

## The ablest pupils

23:

25: It is essential that none of the new arrangements should result in any diminution of effort on the part of the ablest pupils or should make it in any way less easy than at present for them to pass the Higher grade examinations in the fifth year with as wide a margin as their abilitles allow.

A pupil capable of being presented on the Higher grade in the fifth year should have progressed in his fourth year well beyond the standard of the Ordinary grade. 27, 28: We explain the need to review courses, syllabuses, and methods of presentation to allow of more variety of courses and to stimulate

active interest among the pupils. We deal with some ways of ensuring that these pupils receive appropriate instruction.

30: As these pupils progress up the school, they should add subjects to their original course.

We express the hope that they will continue at school for a sixth year. 31 .

## Pupils taking minimal Certificate courses

26.

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44-

32: We indicate which pupils are likely to take minimal Certificate courses. 33-36: These pupils require courses which, although not easy, will be of a different type from those taken by the ablest pupils. Syllabuses and methods of presentation may have to be changed.

37: (a) The syllabuses should be relevant to everyday life. 38. (b) The syllabuses, especially towards the end of the courses, should reflect the vocational interests of the pupils.

39: (c) The methods of presentation should be essentially practical.

40, 41: A course for these pupils must (i) form a complete and satisfactory unit; (ii) afford a reasonable basis for the type of training to which

the pupils leaving school are likely to proceed; (iii) afford a reasonable basis for further study at school. Pupils remaining at school after the fourth year may either broaden their studies or deepen them.

Granted the necessary ability, pupils who have reached the Ordinary grade standard in any subject should be able to take the Higher grade examination in that subject with a reasonable prospect of success after a further two years' study.

## The remaining Certificate course pupils

42: The problem here is mainly that of ensuring adequate flexibility and variety of courses for these pupils. 43: If pupils are allowed to discontinue any subject in which they have

gained a pass on the Ordinary grade, many new variations in courses should then be possible. make it easier to adjust a pupil's course to suit his capabilities.

The difference in standard between the Ordinary and the Higher grade and the proposed abolition of compulsory subjects should also

# PLANNING OF CERTIFICATE COURSES

Possible effects of the Ordinary grade examinations on the curriculum

45. We summarize the different ways in which the new Ordinary grade examinations may be made to fit into the curriculum. 55

# Some proposed changes and their effects on planning

- 46: Certain probable changes, both general and in respect of individual subjects, are likely to affect planning.
- 47: We recommend that no subjects should by regulation be made computery as ytage for Certificate courses.
  We recommend that Regulation 21(2) of the Schools (Scotland) Code be reconsidered with a view to making it rather less restrictive than it now it.
- 48: We discuss the position of a number of subjects which may be affected by the abolition of the requirement that they be included in affected by the abolition of the requirement that they be included in the control of the cont

 (ii) The syllabuses in science for the first two years should be wide enough to make pupils aware of the importance of science in our everyday life.
 (iii) Syllabuses in history and geography should have regard to the fact that some pupils may study them for two years only; in the case

(iii) Syllabuses in history and geography should have regard to the fact that some pupils may attudy them for two years only; in the case of history we recommend that account should be taken of the need for all pupils to have made some study of the modern period. More pupils may be able to take both history and geography to the Ordinary We recommend that certain abslicts which a present are composite—

science, technical subjects, homecraft, commercial subjects—should be divided into branches and that three should be, at least from the beginning of the library ways a separate syllabus for each branch. Separate has a subject to the subject of the library of the library of the library of the library of the subject of the branches.

We are of the deposition that the separation of the branches on the library of the library of the branches on the library of the library

should be formulated forthwith. In the case of homecraft, proposals have already been put forward.

50: We recommend that English should continue to be one subject embracing

- both language and literature as at present.

  We recommend that provision be made for the introduction of Ordinary
- grade Certificate courses in biology, social studies, applied mathematics, horticulture, and navigation.

  52: We recommend that arithmetic be given the status of a subject qualifying
- for a pass on the Ordinary grade.

  53: We point out the possible effects of these changes.

Starting-points for planning and general principles to be observed

 A review of courses previously offered may give a headmaster useful information.

55: General principles which should be observed in planning suitable courses are: (i) a school course must provide a good general education for the pupils; (ii) it must be of an appropriate level of difficulty for the pupils directly concerned; (iii) it must arouse and maintain

49:

their present interest; (iv) it must be suitable as a basis for their future training or work.

(i) General education:

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The course as a whole should provide the pupils with a good background of general knowledge and should train them to use it sensibly.
 Each course should make due provision for the pupils' intellectual, aesthetic, and physical education.

58: The fundamental importance of giving a sound training in moral

values is beyond question.

yaues is beyond question.

59: Pupils should be given the opportunity of cultivating those qualities of character to which extra-curricular activities can contribute so much. The total weight of a pupil's course must not prevent him from taking part in such activities.

(ii) Appropriate standard: Each course must afford the pupils who are taking it full scope-to develop their abilities without causing them undue strain.

(iii) Maintenance of interest:

61; Content and methods should be varied to suit the pupils.
62: Time should be made available for the development of special

Time should be made available for the development c

(iv) Basis for future training or work:
We recommend that all possible steps be taken to make it easy for

pupils on leaving school to move on to appropriate forms of organized post-school education.

64: We summarize the type of course we envisage.

# Application of general principles

65-67: We comment on certain difficulties in applying these principles in all cases; some measure of compromise may be necessary.
We believe that, in general, the number of options offered to pupils can be increased under the new arrangements.

## Suggestions as to drawing un courses

68-79: We offer some suggestions about the framing of courses and deal in turn with each year up to, and including, the fifth year. The curriculum will unadoubtedly become more complex from the third year onwards, and, in paragraphs 75 to 77, we outline one possible approach to the problem of organization courses for the third and subsequent years.

# WAYS OF IMPLEMENTING PROPOSALS

80, 81: We explain the need for "setting" wherever this is practicable.

82, 83: Certain prerequisites for the successful operation of this system and its advantages are mentioned.

84: Setting is more desirable in some subjects than in others.

Setting is more desirable in some subjects than in others.
 We consider the extent to which setting is practicable.

57

#### Group Teaching

- Group teaching is necessary in certain circumstances.
- 88: Group teaching has a contribution to make in the training of pupils.

  89: It is essential to plan the work very carefully beforehand.

  Group teaching can be very valuable, but it does make additional
- Group teaching can be very valuable, but it does make additional demands on the teacher.

## Ensuring flexibility in the fifth and sixth years

- 91: If pupils are allowed to discontinue the study of a subject or subjects in the fifth year, the time available as a result can be successfully used if provision is made for one or more of the following: (a) regular supplementary classes in one or two subjects for which there is considerable demand or need; (b) a number of short courses; (c) individuals to the constant of th
- dual study periods.

  (a) Supplementary classes:

  We consider the advantages and disadvantages of supplementary
- classes.
  (b) Short courses:
  The beginning of the fifth year may in future be an appropriate time
- for pupils, especially the ablest, to take up a short course in one or more subjects.

  94: Pupils may wish to take short courses for a variety of reasons.
- 95: Short courses may be valuable even if they do not lead to passes in the
- Certificate examinations.
  (c) Independent study:
  96, 97: If pupils have acquired the habit of studying independently, it is
- easier to arrange short courses for them or to give them additional time for subjects in which they are comparatively weak. 98: Before leaving school, pupils ought to have learnt to study inde-
- 98: Before leaving school, pupils ought to have learnt to study independently.
  99: We suggest that there should be from the first year onwards conscious
- and progressive training of the pupils so that they can profitably undertake individual study.
- 100: We admit that initially the pupils may appear to make slower progress when working on their own.
- 101: In our opinion it is of paramount importance that there should be nothing haphazard about the arrangements for pupils' undertaking independent study. Certain teachers must be given direct responsibility for guiding the work of the pupils and for checking their progress regularly. This must be a recognized part of the duties of the control of

# IMPLICATIONS OF PROPOSALS FOR CERTAIN TYPES OF SCHOOLS

# Three-year comprehensive schools

- 102: Transfer of Certificate course pupils from these schools to senior secondary schools at the end of the third year will no longer be practicable. When should such transfer take place?
- 103: We recommend that, wherever possible, arrangements should be made whereby pulls do not have to change their school before completing their Certificate course. In most cases this means that all pupils considered capable of taking a Certificate course should be brought into a senior secondary school at the promotion stage.

sent at the beginning of the first year to the central senior secondary school and those allocated to one-language courses are transferred after three years to it from the sending school will not be possible if our recommendation in paragraph 11 is adopted. If Certificate course pupils are not sent at the outset to a central 105: senior secondary school, education authorities must study the circumstances of each sending school and must decide whether to transfer pupils to the central school after two years or to arrange for the sending

The system whereby pupils allocated to two-language courses are

school to develop four-year Certificate courses. The latter decision

should be taken only if the school can be adequately staffed and equipped for this purpose. 106, 107: We indicate the advantages and disadvantages of transferring pupils

to the central school at the beginning of the third year. Where a sending school develops four-year Certificate courses, 108: pupils aiming at the Ordinary grade only need not change schools. We recommend that all pupils in sending schools who by the end of the

second year have shown that they are clearly capable of taking Certificate examinations on the Higher grade in the fifth year should be transferred at the beginning of the third year to a central senior secondary school.

We summarize the various arrangements that we suggest for the 110:

present sending schools. 111: Close co-operation between sending and receiving schools is essential

and it is the ultimate responsibility of the education authority to see that the machinery for this co-operation exists. All relevant information about pupils who have been transferred 112:

should be sent to the headmaster of the receiving school. Certificate courses and syllabuses of sending and receiving schools should be closely integrated. Direct consultations between headmasters have proved very effective and, where meetings do not already take place, we recommend that

the headmaster of the central school should take the initiative in arranging them. Regular meetings among heads of departments from both types of school would also be necessary. Very small senior secondary schools may have too few pupils in the

113: fifth year to allow of efficient organization; they may become sending schools.

## Junior secondary schools

104:

109:

It is probable that some education authorities will find it advisable to 114: institute in a number of junior secondary schools courses for pupils aiming at the Ordinary grade examinations. In areas where a large percentage of pupils in any age-group is allocated to Certificate courses, the introduction of such courses should seldom be necessary. Only pupils who are clearly capable of benefiting from a Certificate 115:

# OTHER IMPLICATIONS OF PROPOSALS

# course should be allowed to embark on it. The sixth year

The pupils in this year fall into two main categories: (a) those 116: concerned with obtaining further Certificate passes and (b) genuine post-Certificate pupils.

For the pupils in the first category the sixth year will be essentially an extension of the fifth year. 118-Under the new arrangements it is hoped that the number of post-Certificate pupils will increase. 119: We feel strongly that an increase in sixth-year work is essential.

The ablest pupils must be encouraged to go ahead at their own pace. 120: We recognize the need to encourage development of advanced courses.

The majority of our Working Party are not in favour of postponing the second major examination until the sixth year or of introducing at the present time an Advanced grade examination. We suggest that another committee might be set up at an appropriate time to consider further the whole question of examinations subsequent to the examination on the Ordinary grade in the fourth year. 121:

We strongly advocate that every pupil with the necessary ability should be given the opportunity of following a genuine sixth-year course. It is desirable that pupils should now be able to study certain subjects in much greater depth than has hitherto been possible.

## Linkage with Further Education

117:

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123: We are convinced that there ought to be a closer integration of secondary education with further education than exists at present. 124: The onus of securing this integration cannot rest on any one body.

125-127: We underline the importance of securing appropriate exemptions from parts of further education courses by virtue of Certificate passes. If the recognition accorded to either grade seems inadequate, the Scottish Education Department should institute further negotiations. For certain subjects it may be necessary to bring together representatives of the various professional institutions, universities, and schools to consider whether a syllabus acceptable to all can be worked out and we recommend that the Scottish Education Depart-

ment should consider organizing such meetings, if they prove necessary, Once a system of exemptions has been accepted, we hope that it will be possible for further education courses to be so arranged that there is no real gap between the work of the colleges and that of the Difficulties and anomalies in the linking of school courses with National Certificate courses show the need for closer co-operation. We consider that further education centres should seek to establish closer relations both with the schools from which their students

come and with the Youth Employment Service in their area. We strongly recommend that the Scottish Education Department should consult the professional institutions through the medium of the Joint Committees with a view to ensuring that appropriate passes on the Ordinary grade of the Certificate examination should be accepted as exempting from the S1 stage of National Certificate courses and similarly that passes on the Higher grade should secure exemption from the S2 stage.

The difficulties experienced with regard to courses for those engaged in commerce are different, but they lead us to similar conclusions. We recommend that there should be established closer liaison between schools and further education centres, and that the Scottish Education Department, along with the National Committee for Commercial Certificates and the professional bodies concerned, should give early and earnest consideration to the question of ensuring appropriate

- exemptions from further education courses in respect of Ordinary and Higher grade passes.

  131: We regret that the present linkage of school courses with the various
- forms of apprenticeship is not more satisfactory.

  132: We discuss the role of education authorities in relation to further
- 132: We discuss the role of education authorities in relation to further education.

  133, 134: The headmaster has also a very important part to play in this con-
- 135: The appointment of a careers master has much to recommend it, especially where the number of senior pupils in a school is large.
- especially where the number of senior pupils in a school is large.

  Heads of departments should know something of further education requirements.
- requirements.

  Youth employment officers and careers advisory officers can be of great assistance to headmasters.

  All concerned must co-operate in ensuring a satisfactory development.

# 138:

Staffing

139-143: Additional staff is likely to be required because of (a) an increase in
the number of pupils, (b) the provision of four-year Certificate
courses in certain schools, (c) the demands of a more flexible organization of courses, and (d) the development of certain branches of

subjects.

We urge that immediate steps be taken to improve the staffing in senior secondary schools since the flexibility of organization, desirable in itself and necessory of the staffing in senior secondary schools such as the staffing in senior of the staffing in th

144: Teachers with full specialist qualifications will still be urgently required but there will be a growing demand for teachers with qualifications which are as wide as possible.
We will invest the urgency of reconsidering the Regulations for the

We would impress the urgency of reconsidering the Regulations for the Training of Teachers with a view to enabling prospective teachers to obtain a wider range of qualifications without loss of their basic specialist amilification.

145: The dute and responsibilities of headmasters will be increased under the ever arrangement. The need for assistance from such most of the ever arrangement is a depart of a satisfact from such master will consequently be greater and we are convinced that some education authorities will require to review their policy in this respect.

# 4 ccammadation

148 -

- 146: If our proposals are to be successfully implemented, there must be adequate accommodation and it must be of an appropriate type.
- 147: The demands on accommodation are likely to be heavy. We therefore recommend as a matter of urgency that steps be taken
  - now to provide the necessary accommodation.

    Accommodation provided is not likely to become redundant.

- More ancillary accommodation will be required both for pupils and for staff.
   We point out that proper accommodation must be available for the
- holding of Certificate examinations.

  151-153: There may be changes in the type of accommodation required. For example, there should be a certain nation of small reading-rooms in which the change in the contract of the con
- which pupils can undertake independent study.

  We consider that the minimum size of classroom stipulated in Appendix

  B of the School Building Code should be substantially increased.
- 155: It is ofunctional building Code should be substantially increased.
  155: It is ofunctionally very desirable that each teacher of a subject or subjects for which ordinary classrooms are used should have a room of his own. In the case of practical subjects, the specialized use of the various practical rooms may make such an arrangement less advantanceous, but the number of rooms provided should similarly.
  - correspond to the number of teachers required.

    A school should have sufficient classrooms to allow of flexibility in time-tabling.

    We recommend that the present method of calculating the total number
- of classrooms required should be reconsidered with a view to ensuring that it is sufficiently generous to make practicable the implementation of our recommendations.

  156: In our opinion the smallest classroom provided (apart from studyrooms or reading-rooms) should be able to seat any class in the

# PART II: THE CERTIFICATE EXAMINATION

157: We pass to the second half of our remit.

secondary department.

#### HIGHER GRADE

158, 159: The Higher grade examinations should to a considerable extent remain unchanged, but some of the changes to be made in the Ordinary grade examinations any necessitate reconsideration of the Higher grade examinations also.

We consider that it is highly desirable that any consequential changes in the Higher grade examinations.

following the one in which the examination on the Ordinary grade is

## ORDINARY GRADE

160-163: We outline the reasons why it was considered advantageous to hold the examination on the Ordinary grade in the fourth year of senior secondary education.

Form and content of the examinations

introduced.

164: The Ordinary grade examinations must not be merely simplified versions of those set on the Higher grade, but must be based on the type of syllabus the pupils should be following. They should also take account, especially as regards the form of questions set and the type of answers required, of the relative immatrity of the candidates.

## Standard of the examinations

165-167: We suggest that the issued of of the communitors should be such that a puril who is at the lower end of the top 30 per ent. of any expression purposed the such as the lower end of the top 30 per ent. of any expression of the interest of the property of security passes on the Ordinary grade at a least three subjects in the fourth year. We also indicate in terms of the present Lower grade and of the Ordinary level of the General Certificate of Education what, in our opinion, the standard of the new Ordinary grade should be.

## PROPOSED CONDITIONS FOR THE AWARD OF THE CERTIFICATE

## Eligibility

168: For presentation on the Ordinary grade, candidates should be in class SIV or any subsequent year, or they should have reached what is accepted as an equivalent stage in their education. Similarly, for presentation on the Higher grade, candidates should be in class SV or any subsequent year or its equivalent.

in class SV or any subsequent year or its equivalent. We further propose that the following external candidates should be admitted to the examination on both the Ordinary and the Higher gradit: (of) students following a course of instruction at a further education centre as defined in the Further Education Code; (b) any other students pay forward by an education authority or other school managers and approved by the Scottish Education Department as having followed a reasonable course of study.

169: We put forward proposals as to the conditions which might govern entry of external candidates to the examination.

170: We give our reasons for making the above proposal.

## Other conditions of presentation

171: We recommend that candidates should be eligible for presentation on either grade in any of the examination subjects and that the certificates issued should credit them with such passes as they have obtained. Any passes gained on the Orlivary grade should be restained whether or not condidates return to school to present a candidate on both grades in the

some subject in any one academic year.

172: We are of the opinion that candidates should continue at school until the beginning of the summer vacation immediately following

until the beginning of the summer vacation immediately following the examinations which they have taken. We recommend that the system of exemptions at present in operation be continued.

## Title of Certificate

173: We suggest that an appropriate title would be the "Scottish Certificate of Education."

## Estimates

174: We recommend that candidates for the Ordinary grade examinations should for each subject (a) be arranged in order of merit and (b) be marked either "P" or "C"

# Ordinary grade pass on Higher grade presentation

176: We recommend that the present practice whereby a candidate who falls on the Higher grade is considered for the award of a pass on the Lower grade should be continued for the Ordinary grade examinations.

# Illness of candidates; adverse circumstances

177: Where a candidate marked "1," "2," "3," or "P" has been prevented by illness from attending the examination, or where the performance of such a candidate may have been affected by adverse circumstances, we recommend that the case should receive special consideration.

# Right of appeal

178: The right of responsible authorities to appeal on behalf of individual candidates should be retained.

# Date of examinations

179: We recommend:

 We recommena:
 that the Ordinary grade examination be held in the month of May;
 that, for at least the first two or three years of the new arrangement, the Higher grade examination should continue to be held in the

month of March;

(3) that the means of surmounting the difficulties with regard to accommodation and the issue of results be investigated and all necessary steps taken to ensure that, as soon as possible, it should become macticable to hold both examinations in the month of May.

### CONCLUSION

181. We cannot conclude without expressing our great indebtedness to our Secretary, Miss M. S. Thomson, whose special knowledge and outstanding helpfulness and industry have been invaluable to us at all stages of our deliberations as well as in the preparation of this Report. We would also thank Mr. J. C. McLean, of the Scottish Education Department, who has helped us greatly in a large variety of ways.

in a large variety of ways.

182. Our signatures indicate our general acceptance of this Report. Apart from the very few instances where specific mention has been made of the

divergence of opinions among us, we have reached agreement on all matters of principle. It is, however, not to be expected that each of us fully endorses every point of detail.

We have the honour to be. Sir.

Your obedient Servants,

J. S. BRUNTON, Chairman

W. S. GRAY A. B. CAMERON ALEX. INGLIS J. N. C. CLARK

FRANCES E. KENNEDY TAMES CRAIGIE JOSEPH KIDD WM. McL. DEWAR PORERT MACINTYRE

DAVID DICKSON T M URQUHART I P. FORSYTH P. M. GILLAN

MARY S. THOMSON, Secretary.

# APPENDIX

During our consideration of the organization of Certificate courses, we found it advisable to draw up a number of sample courses in order to verify that what we were proposing was realistic. We give some of these courses here, but we wish to emphasize that they were drawn up experimentally and are not to be regarded as suitable for all schools. Nor do we suggest that all these courses would be practicable in any one school; some of them would indeed be appropriate in rather exceptional circumstances only. We are aware that they do not all conform to the grouping of subjects included in paragraph 76 of the Report. We pointed out, however, that this grouping was given only to illustrate a possible approach to the problem of planning courses and that the table would not be universally applicable since circumstances varied so greatly from school to school.

In all courses given below it is assumed that provision will be made throughout for religious, physical, and aesthetic education.

Years 3 and 4 (i) Years 1 and 2 English English

History or Geography History Geography Mathematics Mathematics

Science (1 branch) Science Language. Language Homecraft (1 branch) or Homecraft or Technical Subjects (2 branches) Technical Subjects or Geography or History

It will be noted that the possibility exists here of including both history and geography in the later years, an arrangement which might be of great advantage or interest to certain pupils. In general, it is assumed in these courses that a pupil studying mathematics would also be able to take the examination in arithmetic.

(ii) Years 1 and 2 Years 3 and 4
English English

English English
History History or Geography
Geography

Arithmetic or Mathematics
Science Science (2 branches) or Art
Art

Art
Homecraft or
Technical Subjects or
Music
Homecraft (1 branch) or
Technical Subjects (2 branches)
or Commercial Subjects
(2 branches) or Music

In general, this is a lighter course than most of those provided, in that a smaller number of subjects is professed. If arithmetic is chosen, the science subjects would normally be botany and zoology (or biology) since a full course in mathematics would he desirable for pupils taking chemistry or physics.

(iii) Years 1 and 2 Years 3 and 4

English English

Geography

Mathematics Mathematics
Science Science (2 branches) or French
Latin Latin
German German or Greek or Russian

Despite the comparatively small number of subjects professed simultaneously, most pupils would find this couse serve exacting. In its experimentally history is substituted for geography in the third and fourth years. It is thought that very alse pupils, starting the formal saudy of history at a time when they are more mature, might be able to reach either the Ordinary grade in the fourth year work in history, other might remume the study of geography with a view to taking the Ordinary grade examination in that subject also. In this course science can be taken with Grede, German, or Russian furrely possible at present). It also allows a prospective scientist to acquire the elements of both German is the one which makes the heaviest demands on time. uses outlined here this is the one which makes the heaviest demands or time.

(iv) Years 1 and 2 Years 3 and 4

English English
History History or Geography

Geography
Mathematics Mathematics

Naturematics Maintennatics
Science Science (three branches)
Language (Russian or German) or Homecraft or Homecraft (1 branch) or Technical Subjects (2 branches)

In this course the emphasis is on the science subjects. Greater provision for purils with a scientific bent is an urgent necessity.

(v) Year 1 Year 2 Years 3 and 4
English English English
History History Geography
Geography
Mathematics Mathematics and Mathematics and

Geography
Mathematics Mathematics and
Science Science or Arithmetic and
Commercial

Geography
Mathematics and
Science (2 branches)
or Arithmetic and
Commercial
Commercial

Commercial Subjects
Art Art or Homecraft or Fechnical Or Technical Subjects
Technical or Technical Subjects Technical Subjects
Technical or Technical Subjects Technical Subjects

Subjects or Language Language
Language

In the second year, mathematics has been limited to arithmetic for those who intend to take commercial subjects, and art becomes an alternative to technical subjects, homecraft, or a foreign language. The only change in subsequent years is the offering of history and geography as alternatives.

(vi) Year 1 Year 2 Years 3 and 4 English English English History or Geography History History Geography Geography Mathematics Mathematics Mathematics Science Science

Language Language Language Commercial Subjects (2 branches)

(2 branches)

This course exceptionally introduces commercia subjects in the second year and retains mathematics and a foreign language, but includes no science

Year 2 Years 3 and 4 (vii) Year 1 English English English History History Geography Geography French French French Latin Latin Mathematics Mathematics Mathematics

Greek or German or

This course is suitable for pupils with a strong linguistic bent but it avoids committing them to a linguistic course until they have in the first year proved themselves capable of attempting it.

Science

beyond the second year.

Science